ORDER NO. VSD9708M604

Service Manual

Sec. 1 Operating Instructions
Service Information

Sec. 2 Disassembly Procedures

Maintenance & Mechanical Parts Replacement

Sec. 3 Mechanical & Servo Adjustments

Sec. 4 Electrical Adjustments

Sec. 5 Block Diagrams

Sec. 6 Schematic Diagrams

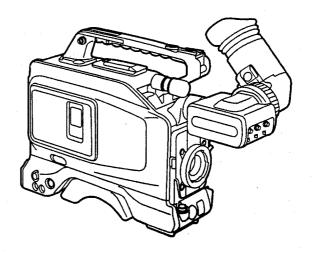
Sec. 7 Circuit Board Diagrams

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Digital Camera Recorder

AJ-D200HE



This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Specifications

[GENERAL]

Power supply:

DC12 V (10.5V to 17.0V)

Power consumption:

17W (main unit including viewfinder)

Operating ambient temperature:

0°C to 40°C

Storage ambient temperature:

-20°C to 60°C

Operating ambient humidity:

Less than 80% (relative humidity)

Continuous operation time:

Approx. 100 minutes

(with Anton Bauer Trimpack 14, continuous recording time)

Dimensions

 $(W \times H \times D)$:

126 × 292 × 337 mm

Weight:

3.7 kg for main unit only

6.1 kg for with NP-1 battery, viewfinder, Fujinon 14× lens, 123-minute

[CAMERA]

Image sensor:

1/3" IT-type CCD with on-chip lens (pixel shift system) ×3

Pixels:

 $542 (H) \times 584 (V)$

Horizontal drive frequency:

11.25 MHz

Sensitivity:

2000 lux, f/5.6 Minimum illumination: 5 lux (f/1.4 +18 dB)

S/N ratio:

58 dB (TYP)

Horizontal resolution: Approx. 500 lines (centre)

Vertical resolution:

500 lines

Sampling frequency: 13.5 MHz/27 MHz

Shutter speeds:

1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000 0/6/12 dB or 0/9/18 dB

Gain selection: Lens mount:

1/3" bayonet mount

Colour separation optical system:

Prism system (f/1.4)

Registration error:

Less than 0.03% (full range, excluding lens distortion)

[VIEWFINDER]

Display tube:

1.5" high-resolution monochrome tube

Horizontal resolution: 600 lines (centre)

External controls:

BRIGHT, CONTRAST, PEAKING controls,

TALLY ON/OFF, ZEBRA ON/OFF, CHARACTER ON/OFF switches

The video and audio performance specifications apply for a tape which has been recorded on this unit and played back on a standard player (ANALOG COMPONENT OUT).

Tape speed:

33.8539 mm/sec

Recording/playback time:

Approx. 123 min. (using AJ-P123LP)

FF/REW time:

Approx. 5 min. 40 sec.

Video signal band:

Brightness = 0 Hz to 5.75 MHz, +1.0 dB/-3.0 dB

S/N ratio:

55 dB

Linearity:

Less than 2%

Y/C delay:

Within 50ns

Audio sampling frequency:

48 kHz (synchronized with video)

Quantizing:

16 bits/sample

Frequency response: 20 Hz to 20 kHz, (+1.0 dB, -1.5 dB) (at reference level)

Distortion:

Less than 0.2% (at 1 kHz, operating level) Less than -65 dB (between channels, at 1 kHz)

Crosstalk: Wow and flutter:

Below measurable limits

[CONNECTORS]

INPUT

FRONT MIC:

Phantom +48V (built-in microphone), –60 dBu, balanced, 3 k Ω

(-60, -50 or -40 dBu setting possible on menu)

AUDIO IN CH1/CH2 (XLR, 3P):

–60, –50 or –40 dBu setting possible on menu, balanced, 10 $k\Omega$

Internal DIP switch setting: Phantom 48V output possible line (-6/0/+4 dBu) switchable

OUTPUT

AUDIO OUT CH1/CH2 (Phono jack):

-6 dBu, unbalanced, low impedance output

HEADPHONE OUT:

Stereo mini jack

VIDEO OUT (BNC):

1.0 Vp-P, 75 Ω

S-VIDEO OUT:

Y signal = 1.0 Vp-p, 75 Ω

C signal = 0.3 V_{P-P} (burst), 75 Ω

OTHER

LENS (12P)

[ACCESSORIES]

1.5" viewfinder

Microphone (attached to main unit)

Battery holder (attached to main unit)

Battery mounting connector and screw supporting Sony-made battery (NP-1B)

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SAFETY PRECAUTIONS

GENERAL GUIDELINES

- When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
- After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
- After servicing make the following leakage current checks to prevent the customer from being exposed to shock hazards.

LEAKAGE CURRENT COLD CHECK

- Unplug the AC cord and connect a jumper between the two prongs on the plug.
- Measure the resistance value, with an ohm meter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 1MΩ and 5.2MΩ.

When the exposed metal dose not have a return path to the chassis, the reading must be ∞ .

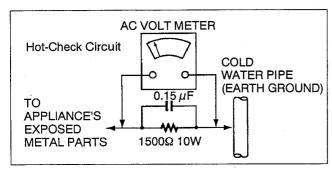


Figure 1

LEAKAGE CURRENT HOT CHECK (See Figure 1)

- Plug the AC cord directly into the AC outlet.
 Do not use an isolation transformer for this check.
- 2. Connect a 1.5K Ω , 10W resistor, in parallel with 0.15 μ F capacitor, between each exposed metallic part on the set an a good earth ground such as a water pipe, as shown in Figure 1.
- Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
- Check each exposed metallic part, and measure the voltage at each point.
- Reverse the AC plug in the AC outlet repeat each of the above measurements.
- 6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

ELECTROSTATICALLY SENSITIVE (ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

- Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground.
 - Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
- After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
- Use only a grounded tip soldering iron to solder or unsolder ES devices.
- Use only an anti-static solder removal device classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
- 5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
- 6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (most replacement ES devices are packaged with leads electrically shorted together by conductive foam. aluminum foil or comparable conductive material).
- Immediately before removing the protective material from the leads of replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
 - CAUTION:Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
- 8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless mother such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device).

X-RADIATION

WARNING

- The potential source of X-Radiation in EVF sets is the High Voltage section and the picture tube.
- When using a picture tube test jig for service, ensure that jig is capable of handling 10kV without causing X-Radiation.
- NOTE: It is important to use an accurate periodically calibrated high voltage meter.
- 3. Measure the High Voltage. The meter (electric type) reading should indicate 2.5kV, ± 0.15 kV. If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure. To prevent an X-Radiation possibility, it is essential to use the specified picture tube.

■ DO NOT REMOVE PANEL COVER BY UN-SCREWING.

To reduce the risk of the electric shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.

WARNING:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

CAUTION:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.

Lithium Battery

Warning

The lithium battery in this equipment must only be replaced by qualified personnel. When necessary, contact your local Panasonic supplier.

"The lithium battery is a critical component (type number CR2032 or BR2032 manufactured by Panasonic.)

It must never be subjected to excessive heat or discharge. It must therefore only be fitted in equipment designed specifically for its use.

Replacement batteries must be of the same type and manufacturer. They must be fitted in the same manner and location as the original battery, with the correct polarity connections observed.

Do not attempt to re-charge the old battery or reuse it for any other purpose. It should be disposed of in waste products destined for burial rather than incineration."

CAUTION

Danger of explosion if battery is incorrectly replaced.

Replace only with the same or equivalent type recommended by the equipment manufacturer. Discard used batteries according to manufacturer's instructions.

VARNING

Explosionsfara vid felaktigt batteribyte. Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren. Kassera använt batteri enligt fabrikantens instruktion.

ADVARSEL!

Eksplosionsfare ved fejlagtig håndtering. Udskiftning må kun ske med batteri af samme fabrikat og type. Levér det brugte batteri tilbage til leverandøren.

VAROITUS

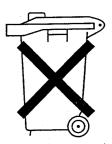
Paristo voi räjähtää, jos se on virheellisesti asennettu.

Vaihda paristo ainoastaan laitevalmistajan suosittelemaan tyypiin. Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

indicates safety information.

Attention/Attentie

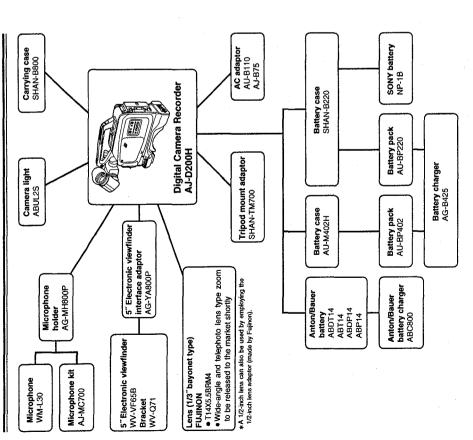
- Batteries are used for the main power source and memory back-up in the product.
 At the end of their useful life, you should not throw them away.
 Instead, hand them in as small chemical waste.
- Voor de primaire voeding en het reservegeheugen van het apparaat wordt gebruikgemaakt van een batterij.
 - Wanneer de batterij is uitgeput, mag u deze niet gewoon weggooien, maar dient u deze als klein chemisch afval weg te doen.



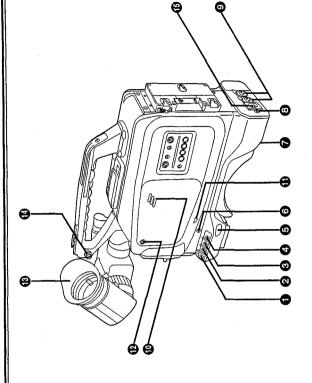
OPERATING INSTRACTION & SERVICE INFORMATION

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Parts and their functions



GAIN selector switch
When the camera picture is too dark, increase the gain to brighten the picture by setting this switch.

The switch is normally kept at this position. 0dB:

The gain of the camera's video amplifier is increased at this position. Select 6 dB or 9 dB on the on-screen menu first. For further details, refer to the menu items 6/9dB:

is increased at this position. Select 12 dB or 18 dB on the on-screen menu first. 12/18dB: The gain of the camera's video amplifier For further details, refer to the menu items (on pages E-49, E-50 and E-54). The amount of noise also increases when the gain (on pages E-49, E-50 and E-54).

is increased.

White balance selector switch
MEMO: When the AUTO W/B (WHITE/BLACK)
BAL switch on the front panel is
operated, the white balance is adjusted
automatically, and the adjustment value is stored in the internal memory.

from the manufacturing plant, OUTDOOR can be selected instead using the on-screen menu. For further details, refer to the menu items (on pages E-49, E-50 and E-54). Although the preset mode was set to INDOOR when the unit was shipped PRST:

INDOOR 3200K OUTDOOR 5000K This is the automatic tracking white balance mode. ATW:

Note:

It may not be possible to attain the correct white balance under some types of lighting.

Е<u>-</u>8

Parts and their functions

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The video signals shot by the camera OUTPUT selector switch

are output.

The colour bar signals are output. BAR

Shown in the figure below are the output levels which are shown as colour bar signals by this It should be noted that these are not EBU colour Yellow White

This is the ON/OFF selector switch of the SHUTTER switch

The electronic shutter does not work at this position. OFF: ë

The electronic shutter is operational at

SELECT: This position is used to change the one setting in the following sequence: 1/100 - 1/125 - 1/250 - 1/500 - 1/1000 non-locking switch. Each time it is operated, the shutter speed changes by speed of the electronic shutter. This is a When the switch is operated at 1/8000, the speed →1/2000→1/4000→1/8000. returns to the 1/100 setting. this position.

D POWER switch

All the functions of the camera VTR are made operational. ë

The power to the camera VTR is turned OFF:

MODE CHECK switch

This enables the settings of the camera's function switches to be checked in the viewfinder.

If trouble causes an excessively high current to causing the power to be turned off automatically to flow inside the unit, the circuit breaker is tripped D BREAKER switch

position. The power will be turned on again provided that no trouble has occurred. Upon completion of inspection inside or repair work on the unit, push this button to the "in" protect the unit.

Earphone (PHONE) jack

This is the earphone (stereo) jack for monitoring the sound. When an earphone is connected, no sound will be heard from the speaker.

Audio input connectors

External microphones are connected here. Line input signals can also be connected by setting an internal switch to the corresponding position.

C Speaker

off when an earphone is connected to the PHONE jack.

The CH1 and CH2 sound is mixed and heard as The sound from the speaker is automatically cut The sound can be monitored through this speaker.

the monitored sound.

(1) Audio monitor level control

This volume control is used to adjust the sound when it is being monitored.

This is the SCENE data function switch. For further details, refer to the SCENE data function section (on pages E-57 and E-58). MARK/CANCEL button

Viewfinder

The shoulder belt is fastened here. C Shoulder belt fitting

This socket is for the external power (DC) supply. (5) External DC input socket

Connect an AC adaptor.
When the adaptor is connected, power is automatically supplied from the external power

 BRIGHT (brightness) control
 This is used to adjust the brightness of the images in the viewfinder. The images become brighter when it is turned clockwise. It has no effect on the camera's output signals.

TALLY ON/OFF switch

CHECK or retake) is taken while a back-up VTR is connected to the S-VIDEO OUT connector to record pictures, the pictures played back by this unit will be recorded on the back-up VTR.

Bear in mind that if any action that involves playing back a tape on this VTR (such as REC

S-VIDEO OUT connector (Y/C connector) AUDIO OUT connectors (pin jacks)

The tally lamp on the front of the viewfinder lights. The tally lamp on the front of the OFF: ë

C ZEBRA (zebra pattern) ON/OFF switch

viewfinder does not light.

A zebra pattern is displayed in the ö

A zebra pattern is not displayed. OFF:

CHECK or retake) is taken while a back-up VTR is

be recorded on the back-up VTR.

Bear in mind that if any action that involves playing back a tape on this VTR (such as REC connected to the VIDEO OUT connector to record pictures, the pictures played back by this unit will

(BNC) VIDEO OUT connector (BNC)

₽ Characters are displayed in This turns the character display ON or OFF. CHARACTER ON/OFF switch

Characters are not displayed in the OFF:

images in the viewfinder to facilitate focusing. The control has no effect on the camera's output

Turning this control sharpens the outlines of the

PEAKING control

This is used to adjust the contrast of the images in the viewlinder. It has no effect on the camera's

output signals

CONTRAST control

The colour temperature display in the ATW mode and the SCENE data MARK will appear even when the CHARACTER ON/OFF switch is at the OFF position. viewfinder.

F-10

Parts and their functions

Function buttons

Lens locking lever

Dhis is used to remove the eye cup. The eye cup is removed by moving the lever in the direction of the arrow and then sliding the eye cup free. After the lens has been attached to the lens mount, this lever is tightened up to lock the lens in

OREWIS STOP OFFES OPLAY EJECT

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Viewfinder locking stopper Lens mount (bayonet type)

lock the viewfinder in place. here. For a detailed description of the lens to be used, read the instruction manual which The connecting cord of the lens is connected

D LENS connector (12-pin)

This attaches the lens.

Shoulder belt fitting

🐼 Diopter control (bottom panel)

Adjust this to match your eyesight so that you can clearly see the images inside the viewfinder

balance selector switch is set to the MEMO position and then the AUTO W/B

AWB: The white balance and black balance are automatically adjusted. When the white

(B) AUTO W/B (WHITE/BLACK) BAL switch

accompanies the lens.

BAL switch is operated, the adjustment

value is stored in the unit's memory. Bear

in mind that no operation results when the selector switch is set to the ATW or PRST

Cassette holder

This is the slot where the cassette tape is loaded

This is used to adjust the viewfinder's position. To adjust the position, loosen the stopper and move the viewfinder to the left or right. After having adjusted the position, tighten up the stopper to

The shoulder belt is fastened here.

Eyeplece position adjustment ringThis enables the eyeplece position to be adjusted forwards or backwards when used in the unlocked status. Upon completion of the adjustment, set it to the LOCK status to lock the eyepiece in

© PLAY button/lamp Within this button is pressed, play is commenced Withen this button is pressed, play is commenced and its lamp lights. When it is pressed again, the STILL mode is established, and when it is pressed once more, the PLAY mode is established again.

the tape has stopped travelling, the tape is rewound or fast forwarded at the normal ■ REW (rewind)/FF (fast forward) buttons

 When the REW or FF button is pressed while

rewinding or fast forwarding speed in the E-E When the REW or FF button is pressed while the tape is being played, the tape is reviewed or cued at approximately 4.5 times the normal tape When the REW or FF button is pressed in the

EJECT button

When this button is pressed, the cassette holder rises, and the cassette tape can be loaded or VTR is in the REC mode. To eject a tape in the REC mode, first establish the REC/PAUSE mode and then press the EJECT button. removed. The button does not work when the

STOP button

When the ring is loosened, the viewfinder can be rotated by 90 degrees and pointed upwards.

Eye cup

This is used to attach or remove the viewfinder.

Wewfinder locking ring

A video light or other accessory is installed here.

Accessory hole

normal tape speed.

STILL or REC PAUSE mode, the tape is reviewed or cued at approximately 1 times the

The tape stops travelling when this button is pressed. The button does not work during recording. To stop the tape during recording, first establish the REC/PAUSE mode and then press the STOP button.

E-12

This lights when the image shot by the camera is being recorded by the VTR. It lights or flashes in tandem with the TALLY lamp inside the

This is used to start or stop the recording.

W VTR START/STOP button

This is a compact unidirectional microphone. A microphone with sharp directionality can be

(1) Microphone

attached by replacing the microphone provided

with the optional holder.

0

These switches are used to select the CH1 and S Audio input selector (MIC SELECT) switches

CH2 audio input.

1-5

FRONT: Set to this position when recording audio microphone the from signals

incorporated in the camera. Set to this position when connecting and recording the audio signals from external microphones to the audio input connectors (XLR 3P) on the rear panel these microphones. REAR:

 Audio level controls
 These are used to adjust the CH1 and CH2 recording levels.

↑ ITEM button
This is used to select menu items. When the ♠ MENU switch is at OFF, it functions as the reset button for the CTL counter.

DOWN and UP buttons

These are used to make changes to the menu

PAGE button

This is used to set the menu items

(I) MENU SET/OFF selector switch SET: Set to this position whe

Set to this position when displaying or making changes to menu items. The switch is normally kept at this OFF:

B Return switch (RET, REC CHECK)

pressed in the recording pause mode, the recording check function is activated, the recorded This switch is for checking a recording. When it is section is played back, and then the recording is placed in the pause mode.

O VTR start/stop switch

inside. The speed is increasing by turning the control clockwise but take care not to turn it too far

This control must be adjusted when the lens has been replaced or when a lens has been mounted

for the first time.

since hunting (continuous cycling) will occur.

This enables the automatic iris speed to be Removal of the rubber cap reveals the control

Automatic Iris control

is pressed once, recording starts; when it is pressed again, it stops. When using this lens, the VTR can be controlled by this switch or the VTR This switch provides easy manual access to starting and stopping the VTR recording. When it start/stop switch on the camera.

& Lens iris selector switch (IRIS)
 (A) side: The iris is adjusted automatically.
 (M) side: Set to this position to adjust the iris

manually.

Lens cable (12-pln)
This cable is to be connected to the LENS connector.

Power zoom control switch
 The zoom can be controlled electrically by setting
 the power/manual zoom selector switch to SERVO
 and then pressing the power zoom control switch.

The zoom speed differs depending on the force with which the switch is pressed.

6 Focus ring
This ring is turned to focus the lens.

Soom ring

To adjust the screen size, set the power/manual zoom selector switch to MANU, and turn this ring.

4 Hand strap Adjust this to fit the size of your hand.

Viewfinder displays

LED displays

AUDIO (yellow): This is not used in this system.

This lights during recording. It flashes as the tape is approaching the recording position from unloading or when trouble has occurred. TALLY (red):

o_∰

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O S

To adjust the flange back, loosen the flange back loosen the flange back, loosen the flange back looking knob, and turn this ring. The ring must be adjusted when the lens has been replaced or when a lens has been mounted for the first time.

To adjust the iris, set the lens iris selector switch

D Iris ring

(IRIS) to M, and turn this ring.

(D) Macro ring

To take close-ups, set the lens all the way to the wide position, and turn this ring.

Flange back locking knob
Use this knob to lock the flange back after it has
been adjusted.

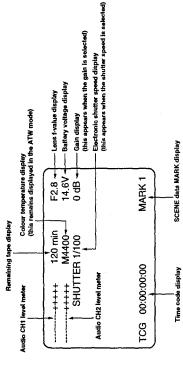
This is not used in this system. STBY (green): This lights when the camera gain is increased. GAIN (yellow): This lights or flashes when trouble has occurred in the VTR. VTR (yellow):

This flashes when the battery charge has dropped. BATT (yelfow):

Ę o

BA∏ O

O GAIN



- These displays appear when the CHARACTER switch at the front of the viewfinder is set to ON.
 Each individual display can be turned off by setting the corresponding
 - menu item.

 When the mode check switch has been pressed, the current statuses
- are displayed regardless of whether the individual displays have been set ON or OFF using the corresponding menu items or whether the CHARACTER switch is ON or OFF.

 The colour temperature display in the ATW mode and the SCENE data MARK will appear even when the CHARACTER ON/OFF switch is at the OFF position.

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E-15

Character displays

Also refer to the operating instructions accompanying the lens you have purchased.

Dower/manual zoom selector switch
When this switch is set to SERVO, the zoom can
be adjusted using the power zoom control switch.
When it is set to MANU, the zoom can be adjusted

using the zoom ring.

Error message displays

When an error occurs, an error message appears in the viewfinder.

There are two types of error messages: those which appear when the power is switched on, and those which appear during operation.

The tables given below indicate the causes and remedial action for the corresponding error messages.

Error messages which appear when the power is switched on

Remedial action	Replace the unit's back-up battery. For the replacement procedure, refer to page E-59, and consult with your dealer.	Remarks: A flat back-up battery will interfere with the clock and time code free run functions although all other functions will remain unaffected. Replace the back-up battery at the earliest possible opportunity. The BACKUP BATTERY EMPTY display will appear even when the power is turned back on immediately after the back-up battery was replaced. This is normal and not indicative of a maifunction.	MEMORY This appears when garbage data in the built-in Proceed with garbage collection on the flash memory needs to be collected. MAINTENANCE menu screen among the menu shammony called a fash memory is used items. Refer to the menu items (on pages inside this unit. It confins all the menu shitings, E-49, E-50 and E-56). White balance adjustment data and many other types of data. Due to the fast that this is a special memory, the old data no longer required when menu changes are made, for instance, is refained. Consequently, garbage memory contents such as these must be collected from time to time.	Remarks: This display appears well ahead of time so there is no need to panic and initiate garbage collection immediately. The garbage collection processing takes some time (about 1 minute) so it should be done when there is a spare moment.
Cause	This appears when the internal clock battery Replace the unit's back-up battery. has run down. replacement procedure, refer to page to consult with your dealer.	Remarks: A flat back-up battery will interfere with the clon other functions will remain unaffected. Repla opportunity. The BACKUP BATTERY EMPTY display will a immediately after the back-up battery was repmatunction.	This appears when garbage data in the built-in flash memory needs to be collected. A special memory called a flash memory is used inside this unit. It contains all the menu stitlings, white balance adjustment data and many other types of data. Due to the fact that this is a special memory, the old data no longer required when menu changes are made, for instance, is retained. Consequently, garbage memory contents such as these must be collected from time to time.	Remarks: This display appears well ahead of time so there immediately. The garbage collection processing done when there is a spare moment.
Error display	ВАТТЕВҮ		МЕМОRY	
Error	BACKUP		FLASH EMPTY	

Viewfinder displays

Error messages which appear during operation

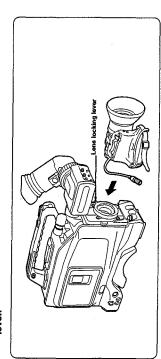
d (when the AUTO W/B BAL switch was d) or when the screen is excessively pears when the AUTO W/B BAL switch was d) or when the BAL switch was d) or when the AUTO W/B BAL switch was d) or when the lens rable has been ected or when the lens is control circuit and amaged. Pears when the AUTO W/B BAL switch at a position other than MEMO. The pears when the AUTO W/B BAL switch at a position other than MEMO. The pears when the AUTO W/B BAL switch at a position other than MEMO. The pears when the AUTO W/B BAL switch at a position other than CAM. This to a maltunction in the camera unit. The pears when the white balance was not a property due to some condition or a property due to some condition or a property due to some condition or detected immediately after the power has descred immediately after the power has pears when an unrecorded part of a tape of back or at other times when the VTR of the disengaged. The page E-64 where detailed instructions ound. The page E-64 where detailed instructions ound.	Error display	Cause	Remedial action
FIROR This appears when the white balance is to be adjoisted (when the AUTO WIB BAL switch was operated) or when the screen is excessively dark. FIROR This appears when the lens rable has been disconnected or when the lens ris control circuit has been damaged. FIROR This appears when the AUTO WIB BAL switch was operated with the white balance selector switch at a position other than MEMO. FIROR This appears when the AUTO WIB BAL switch at a position other than CAM. FIROR This appears when the Wilte balance was not a position other than CAM. This appears when the white balance was not other. This appears when the white balance was not other. This appears when an unrecorded part of a tape is played back or at other times when the VTR servo lock is disengaged. This is played back or at other times when the VTR servo lock is disengaged. This is not an error message. It is a waming which this is not an error message. It is a waming which this power.		This appears when the white balance is to be adjusted (when the AUTO W/B BAL switch was operated) or when the screen is excessively bright.	Stop down the iris a little more, and adjust the white balance. If the error display remains, insert the electronic shutter or attach the ND filter.
ERROR This appears when the lens cable has been danaged. ERROR This appears when the AUTO W/B BAL switch was operated with the white balance selector switch at a position other than MEMO. ERROR This appears when the AUTO W/B BAL switch was operated with the OUTPUT switch at a position other than CAM. ERROR This points to a malfunction in the camera unit. ERROR This appears when the white balance was not attained properly due to some condition or other. This appears when an unrecorded part of a tape is played back or at other times when the VTR servo lock is disengaged. This signifies that condensation has formed. Refer to page E-64 where detailed instructions can be found.	тоо раяк енноя	This appears when the white balance is to be adjusted (when the AUTO W//B BAL switch was operated) or when the screen is excessively dark.	Open the iris a little more, increase the gain (if this is warranted by the subject brightness), and adjust the white balance. If the error display remains, direct some light onto the subject.
ERROR This appears when the AUTO W/B BAL switch was operated with the white balance selector switch at a position other than MEWO. ERROR This appears when the AUTO W/B BAL switch was operated with the OUTPUT switch at a position other than CAM. ERROR This points to a malfunction in the camera unit. ERROR This appears when the white balance was not attained properly due to some condition or other. This appears when an unrecorded part of a tape is played back or at other times when the VTR servo lock is disengaged. This signifies that condensation has formed. Refer to page E-64 where detailed instructions can be found.	LENS UNIT ERROR	This appears when the lens cable has been disconnected or when the lens iris control circuit has been damaged.	The cause is almost always a disconnected lens cable. If the display appears even when the cable is connected properly, consult with your dealer.
ERROR This appears when the AUTO W/B BAL switch are was operated with the OUTPUT switch at a persition other than CAM. ERROR This points to a malfunction in the camera unit. ERROR This appears when the white balance was not attained property due to some condition or other. Oris are deflected when the white balance is adjusted (when it? ERROR is also detected immediately after the power has This appears when an unreconded part of a tape is played back or at other times when the VTR servo lock is disengaged. This signifies that condensation has formed. Refer to page E-64 where detailed instructions can be found.		This appears when the AUTO W/B BAL switch was operated with the white balance selector switch at a position other than MEMO.	Adjust the white balance (operate the AUTO W/B BAL switch) with the white balance selector switch at the MEMO position.
ERROR This points to a mathunction in the camera unit. ERROR This appears when the white balance was not other. Other. This appears when the white balance is adjusted (when it ERROR) is also detected immediately after the power has the appears when an unecoded part of a tape is played back or at other times when the VTR servo lock is disengaged. This signifies that condensation has formed. Refer to page E-64 where detailed instructions can be found. This is not an error message. It is a warning which the contract of		This appears when the AUTO W/B BAL switch was operated with the OUTPUT switch at a position other than CAM.	Adjust the white balance (operate the AUTO W/B BAL switch) with the OUTPUT switch at the CAM position.
ERROR This appears when the white balance was not attained properly due to some condition or other. Ons are detected when the white balance is adjusted (when IT ERROR is also detected immediately after the power has This appears when an unrecorded part of a tape is played back or at other times when the VTR servo lock is disengaged. This signifies that condensation has formed. Refer to page E-64 where detailed instructions can be found. This is not an error message. It is a waming which the VTR is a saming which the VTR is a search of the condensation has formed.		This points to a malfunction in the camera unit.	Consult with your dealer.
IT ERROR is also detected immediately after the power has This appears when an unrecorded part of a tape is played back or at other times when the VTR servo lock is disengaged. This signifies that condensation has formed. Reler to page E–64 where detailed instructions can be found. This is not an error message. It is a waming which the page of the page is a page of the page of the page is a page of the page of the page is a page of the page of the page is a page of the page of th	ERROR	This appears when the white balance was not attained properly due to some condition or other.	Change the ins setting (the brightness) slightly and then try again. If the message continues to appear even after two or three attempts, consult your dealer.
This appears when an unrecorded part of a tape is played back or at other times when the VTR servo lock is disengaged. This signifies that condensation has formed. Refer to page E-64 where detailed instructions can be found. This is not an error message. It is a warning which the structure of	Remarks: The above errors are de The LENS UNIT ERROR	tected when the white balance is adjusted (when is also detected immediately after the power has	the AUTO W/B BAL switch has been operated). been switched on.
		This appears when an unrecorded part of a tape s played back or at other times when the VTR servo lock is disengaged.	It is normal for this display to appear with unrecorded parts of tapes. If the display appears during the playback of an obviously recorded tape or during recording, this points to a malfunction. Consult with your dealer.
		This signifies that condensation has formed. Refer to page E-64 where detailed instructions can be found.	Refer to page E-64 where detailed instructions can be found.
Sirviny.		This is not an error message. It is a warning whic shortly.	h indicates that the power will be turned off very

Preparations

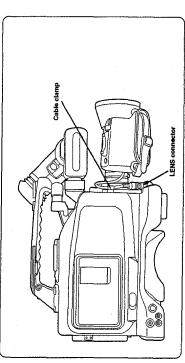
■ Attaching the peripheral units

Attaching the lens

Position the lens, insert it, and lock it in place using the lens locking lever.



 $oldsymbol{Z}$ Connect the cord to the LENS connector, and secure it using the cable clamp.



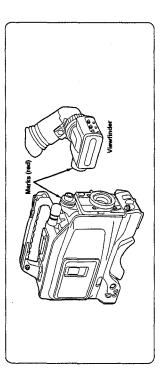
Notes: Refer to the operating instructions accompanying the lens for details on handling the lens.

R Attach the lens cap to protect the unit when the lens has been removed.

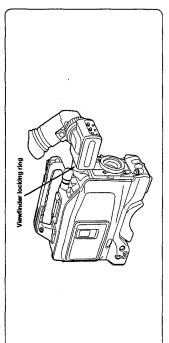
Preparations

Mounting the viewfinder

$oldsymbol{I}$ Align the positions of the marks (red), and fit into place.



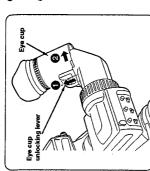
 $\, 2 \,$ Turn the viewfinder locking ring to lock the viewfinder into place.



The viewfinder can be turned by 90 degrees by loosening the locking ring.

E-19

Removing the eye cup



Move the eye cup unlocking lever is the direction indicated by the arrow.

OSlide the eye cup in the direction indicated to remove it.

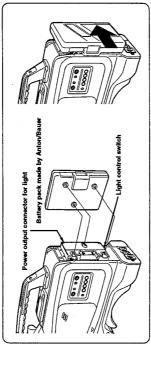
Preparations

When using a battery pack made by Anton/Bauer

Before using the battery pack, charge it using the special battery charger made by Anton/Bauer. For the charging time and other details, refer to the operating instructions of the battery charger used.

I Attach the battery pack made by Anton/Bauer.

Insert it in the direction indicated by the arrow and slide it into place.



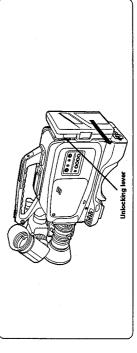
■ Provided on the battery holder made by Anton/Bauer are a power output connector for a light and a light control switch. A light can be easily attached. For details on lighting systems, consult an Anton/Bauer representative.

${f Z}$ Set menu item 7. BATTERY (BATT.SELECT) to the battery which is to be used.

For further details, refer to the menu items (pages E-49 to E-51)

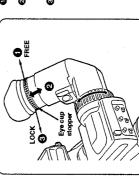
Remarks:

■ To remove the battery pack
While holding the unlocking lever on the battery holder all the way down, slide the battery pack in the direction indicated by the arrow.



E-22

Adjusting the eye cup position



@Adjust the eye cup by moving it towards you or away from you. DSet the eye cup stopper to FREE.

Set the eye cup stopper to LOCK to lock the eye cup in place.

E-21

Move the eyepiece towards the left or right to a position which affords the easiest viewing.

Tighten the eyepiece stopper.

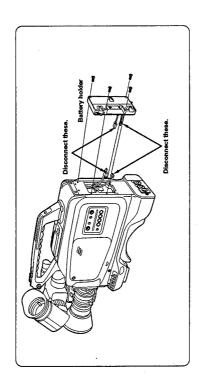
Set the eyepiece stopper to FREE.

Adjusting the eyepiece position

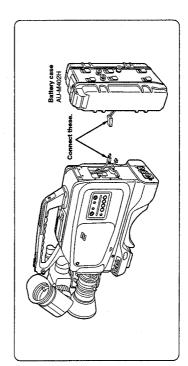
When using the AU-BP402 battery pack

Charge the AU-BP402 battery pack using the AG-B425 battery charger. It takes about an hour to charge the battery pack. For further details, refer to the operating instructions accompanying the AG-B425 battery charger.

Remove the battery holder.

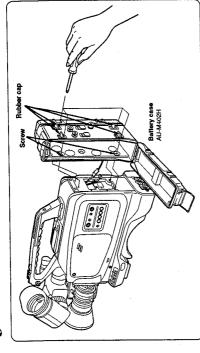


 ${\it 2}$ Connect the unit's cables to the AU-M402H battery case cables.



Preparations

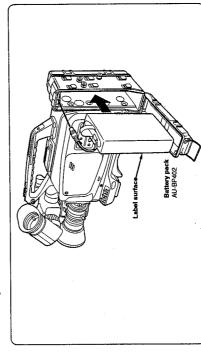
3 Mount the AU-M402H battery case onto the unit using a screwdriver.



Holes with the screws recessed inside can be seen when the cover is opened and the rubber caps are lifted. Tighten up these screws using a screwdriver so that the battery case is mounted onto the unit. Tighten the screws up all the way.

CAUTION: Do not pull the rubber caps with too much force.

Connect the plug of the battery pack to the connector inside the battery case, and install the battery pack inside the case.



CAUTION: The unit's power must be turned off before the plug is connected or disconnected.

E-24

E-26

5 Set menu item 7. BATTERY (BATT.SELECT) to NiCd12V.

Menu item screen (viewfinder)

- MAIN FUNCTION TCG CLEAR
RECRUN/FREERUN : REC
SCENE DATA SAVE
SCENE DATA UNDEL
SCENE TALLY
MENU INITIALIZE

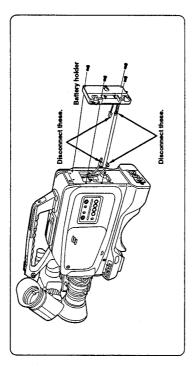
For further details, refer to the menu items (pages E-49 to E-51).

Preparations

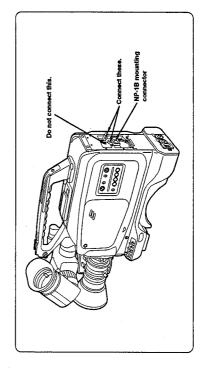
When using the NP-1B battery made by Sony

Charge the NP-1B battery using the special battery charger made by Sony. For the charging time and other details, refer to the operating instructions accompanying the battery charger used.

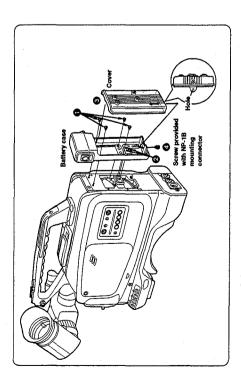
Remove the battery holder.



${\it 2}$ Attach the accessory NP-1B mounting connector.



Mount the battery holder made by Sony



Before proceeding any further, remove the battery holder cover.

Mount the battery case using the mounting screws.

Tighten the power contact screw.

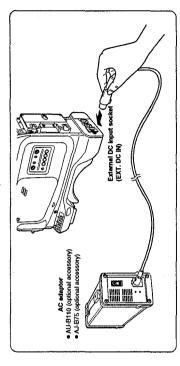
Onliest the top of the cover in the direction indicated by the arrow.

Align the hole at the bottom (metal part) of the cover with the hole at the bottom of the battery case and mount the battery holder using the screw provided with the NP-1B mounting connector.

Preparations

(when using the AU-B110/AJ-B75 AC adaptor) When using an AC power source

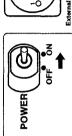
Connect the unit's external DC input socket to the DC OUT connector on the AU-B110/AJ-B75 AC adaptor.



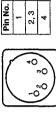
Turn on the AC adaptor's power.

Set the unit's POWER switch to the ON position.

Check the pin signals of the external DC input socket when an external power source other than the AU-B110/AJ-B75 AC adaptor is to be used.







GND



External DC input socket

- Priority is given to the power supplied from the AC adaptor when both a battery pack and AC adaptor have been connected. NOTES:
- When the AC adaptor is used, the low battery warning may appear depending on the BATT.SELECT menu setting. If this happens, it is recommended that the Ni-Cd12V setting be used for BATT.SELECT.
- When the AC adaptor is used, the AC adaptor's power must be turned on before the unit's POWER switch is set to the ON position. If the POWER switch is set to ON first, the unit may malfunction since the AC adaptor's output voltage increases slowly after the power has been turned on.

Preparations

Mounting the unit onto a tripod

The tripod mount adaptor, which is sold separately, is used to mount the unit onto a tripod.

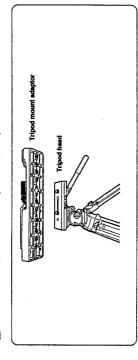
The AJ-MC700/WM-L30 or other optional microphone can be used in place of the microphone which

accompanies the unit.

Attaching the microphone holder (option)

Remove the microphone on the main unit.

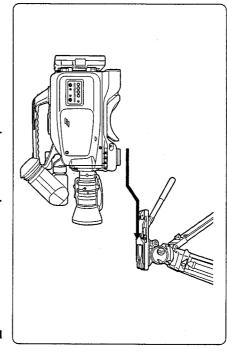
Attach the tripod mount adaptor to the tripod.



NOTE: Take the centre of gravity of the unit and tripod mount adaptor into consideration when selecting the hole for the attachment.

Also check that the diameter of the hole selected matches the diameter of the tripod head screw.

${\it 2}$ Mount the unit onto the tripod mount adaptor.

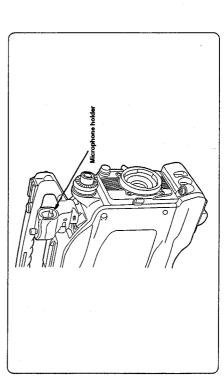


Slide the unit away from you along the groove until it clicks into position.

E-30

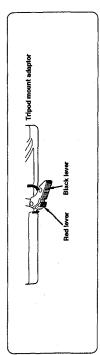
2 Attach the microphone holder.

Remove the two screws to remove the connector and then remove the microphone.



The microphone holder is attached by following the microphone removal procedure in reverse.

Disengaging the unit from the tripod mount adaptor



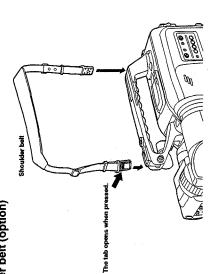
Move the black lever in the direction indicated by the arrow while holding down the red lever, and disengage the unit by sliding it towards you.

If the pin of the tripod mount adaptor falls to return to its original position after the unit has been disengaged, again move the black lever in the direction indicated by the arrow while holding down the red lever. This returns the pin to its former position.

Bear in mind that the unit cannot be mounted if the pin is left in the centre.

NOTE

Fastening the shoulder belt (option)



To release the shoulder belt, open the tabs at both ends and disengage.



NOTE: Check that the shoulder belt is securely fastened.

E-31

E-32

Preparations

Adjusting the shoulder pad position

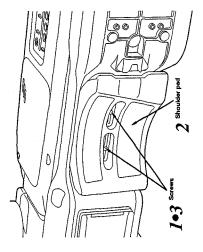
The shoulder pad can be adjusted by sliding it in the forwards or backwards direction from its center position (shipment position) by up to 15 mm on either side.

Adjust it to the position where you find it easiest to operate.

Loosen the two screws.

Slide the shoulder pad back and forth until you find the optimum position.

${oldsymbol 3}$ Tighten the screws and secure the shoulder pad.



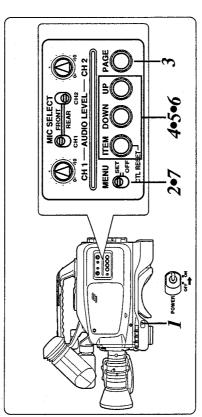
Bottom section

E-34

Preparations

■ Setting the date and time

The first step to take after purchasing the unit is to set the date and time. (With a DVCPRO VTR, the shooting date and time data is recorded separately from the images. In order for this data to be recorded correctly, first set the date and time.)



Set the POWER switch to ON.

- The setting screen (MENU) appears in the viewfinder when the MENU SET/OFF selector switch is set to SET.
- While monitoring the viewfinder, press the PAGE button until the TIME/DATE screen appears. 3

Setting screen (viewfinder)

(First setting screen for menu items)

	C -TIME/DATE -	••	MONTH : 06	DAY :13	HOUR : 10	MINUTE : 02		■ TIME/DATE SET		
	_				t	2002	neep neep	the PAGE	button.	
,	1		: REC				: DIGIT	NO		
,	- MAIN FUNCTION -	■ TCG CLEAR	RECRUN/FREERUN		SCENE DATA SAVE	SCENE DATA UNDEL	BATT. SELECT	BACK TALLY	MENU INITIALIZE	

Descriptions are also given in the menu items (on pages E-49, E-50 and E-55).

E-33

Set the date and time using the ITEM, UP and DOWN buttons.

S Keep pressing the ITEM button until the arrow indicates "■ TIME/DATE SET."

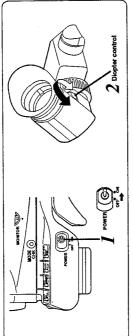
Setting screen (viewfinder) - TIME/DATE -- YEAR : 97 MONTH : 06 DAY : 13 HOUR : 10 **■ TIME/DATE SET** t

The date and time settings are entered when the UP or DOWN button

7 Finally, set the MENU SET/OFF selector switch to OFF.

■ Adjusting the viewfinder

Adjusting the viewfinder diopter

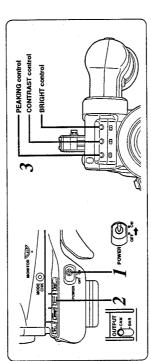


Set the POWER switch to ON.

An image now appears on the viewfinder.

Z Turn the diopter control and adjust it so that the viewfinder image can be seen clearly.

Adjusting the viewfinder's brightness and contrast



Set the POWER switch to ON.

An image now appears on the viewfinder.

Set the OUTPUT switch to CAM.

Turn the viewfinder's BRIGHT and CONTRAST controls and adjust the brightness and contrast of the image.

When the viewfinder's PEAKING control is turned, the image can be adjusted to be softer or sharper. If it is adjusted to be sharp, it will be easier to focus the lens.

-35

Preparations

Adjusting the lens flange

The lens flange is adjusted when the lens fails to be focused at both the telephoto and wide-angle positions because it has been replaced.

This adjustment need be done only once provided that the lens is not replaced. I Loosen the flange back locking knob.

Z Set the lens iris selector switch (IRIS) to "M."3 Turn the iris ring and set the iris to the

fully open position.

Shoot a well-contrasted subject such as a window or utility pole at least 10 meters away.

S Set the power/manual zoom selector switch to "M."

Approx. 10 meters

6 Turn the zoom ring and set the zoom to the maximum telephoto position (zoom in).

Lens iris selector switch Turn the focus ring and bring the subject into focus.

When the subject is too bright and it is hard to verify whether it is in focus: Set the electronic shutter to ON. (if necessary, change the shutter

Turn the zoom ring and set the zoom to the maximum wide-angle position (zoom out).

speed as well.)

Zoom ring

9 Turn the flange back adjustment ring and bring the subject into focus. I O Repeat steps 5 to 9 until the subject is brought into focus at both the telephoto and wide angle positions.

Power/manual zoom selector switch (on the bottom panel)

If the subject is out of focus, use the focus ring to focus, then zoom out, and use the flange back adjustment ring to bring the subject into focus.

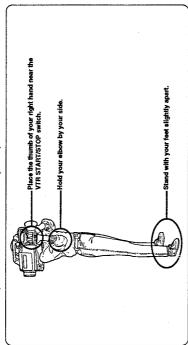
If Upon completion of the adjustments, tighten up the flange back locking knob to prevent the flange back adjusting ring from moving out of position.

Also refer to the operating instructions accompanying the lens you have purchased.

Adjustments during shooting

Camera posture

If the camera is held rather than secured on the tripod for shooting, the images will feature plenty of movement but there will be a lack of stability. Hold the camera in such a way as to prevent camera shake.

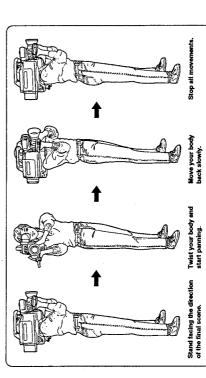


Camera movements

Basically, the camera should be fixed in position for shooting. If the pan and tilt functions are used, however, the recording will have more of a sense of movement. Moving the camera horizontally is called 'panning'; moving it perpendicularly is known as "tillings" in moving the camera, the knack is to move it slowly. Better shots can be taken by moving the camera very slowly.

Even when a movement has been completed, suspend all movement for a few moments.

Panning

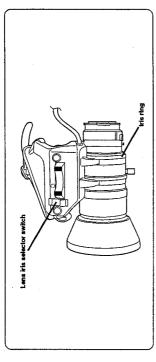


Adjustments during shooting

Exposure adjustment

The exposure varies according to the lens iris.

The lens iris can be adjusted using the automatic iris or manual iris settings.



Automatic iris

Set the lens iris selector switch (IRIS) to "A."

The iris is automatically adjusted to obtain the brightness which is commensurate with the subject.

The iris is automatically adjusted to obtain the brightness of the entire scene to control as This unit's automatic iris operation serves to measure the average brightness of the entire scene to control the iris. This means that the subject will tend to become all white or dark when a spotlight is directed on the subject or when the subject is shot under backlight conditions. Use the lens iris at the manual setting for lighting conditions such as these.

Manual iris

Set the lens irls selector switch (IRIS) to "M." Turn the iris ring and adjust the brightness.

Shooting conditions	Operation
Background is too bright, and subject is dark Open the iris stightly. (backlight)	Open the iris slightly.
Background is dimly lit, and subject is bright	Stop down the iris slightly.
When special effects are desired	Adjust the ins as required.

Also refer to the operating instructions accompanying the lens you have purchased.

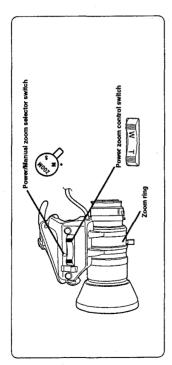
■ If the light quantity is too great, obtain an ND filter (62 mm diameter) from a camera store, and attach it in front of the iens.

Notes:

Zooming

Both power zoom and manual zoom functions are available for zooming.

Power zoom involves simply pressing a switch and selecting telephoto (TELE) or wide angle (WIDE); manual zoom involves operating the zoom ring and selecting telephoto or wide angle.



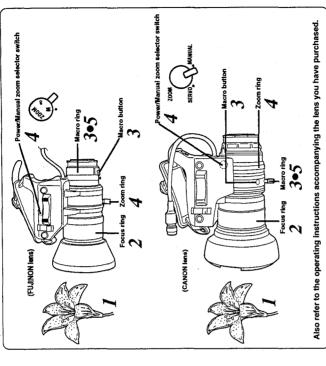
	Power zoom	Manual zoom
Zooming	Set the power/manual zoom selector switch to "S."	zoom Set the power/manual zoom selector switch to "M."
Telephoto	Set the power zoom control Rotate the zoom ring downwards. switch to T (TELE).	Rotate the zoom ring downwards.
Wide angle	Set the power zoom control Rolate the zoom ring upwards. switch to W (WIDE).	Rotate the zoom ring upwards.

Also refer to the operating instructions accompanying the lens you have purchased.

Adjustments during shooting

How to take close-ups

The close-up (macro) function comes in handy when shooting insects, flowers or other subjects positioned at close distances of up to 1 meter or so from the unit.



Bring the lens up close to the subject.

- 2 Set the focus ring to the shortest possible setting.
- 3 Press the MACRO button forwards, and rotate the macro ring.
- The subject appears at its maximum size when the macro ring is rotated as far as it will go.

 Get the power/manual zoom selector switch to "M," and rotate the zoom ring to bring the subject into focus.
- S After completing the macro shooting, return the macro ring to its click-stop position.

White balance adjustment

When shooting a subject, it is necessary to adjust the white balance to a setting which matches the light source. A light source is expressed using a colour temperature (K). The bluer the light, the higher the temperature; conversely, the redder the light, the lower the temperature. The table given below shows the correlation between

Light sources and colour temperatures

Colour temperature (K)

Light source

Clear skies Cloudy Rainy

light sources and colour temperatures.

Blue

10,000 8,000 7,000 6,000 5,000

Fluorescent lights (daylight)

Fluorescent lights (white)

Mercury-vapour lamps

Sunshine at midday

4,000 3,500 3,200 3,000

Fluorescent lights (warm white)

Studio lights

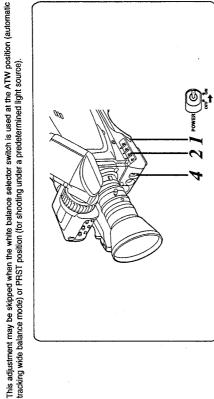
1 hour after sunrise, 1 hour before sunset

Hatogen lamps, video lights

30 minutes after sunrise, 30 minutes before sunset

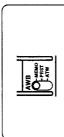
Incandescent bulbs

Sodium tamps



Set the POWER switch to ON

Set the white balance selector switch to MEMO.



2,000

Candlelight

Sunrise, sunset

(Lighting inside tunnels)

2,500

Place a sheet of white paper, handkerchief or something similar in to illuminate the subject, and zoom in on the subject so that the screen is filled with the white paper or handkerchief. conditions identical to those of the light sources which will be used 3

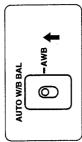
 Something white (such as a piece of white fabric or white wall) near the subject may serve instead, but it should be borne in mind that what you

balance. Attempting to adjust the white balance with the iris open too far will cause the warning "TOO BRIGHT" to be displayed and processing to stop. Note that the "TOO BRIGHT" warning is especially thought was white may in fact be slightly coloured.

Be careful not to open the lens Iris too far when adjusting the white prone to appear when the entire screen is filled with something white, such as a piece of paper.

(Generally speaking, selecting the AUTO IRIS mode to control the lens ins setting will ensure that it is automatically adjusted to the appropriate setting for the lighting level.)

Shoot the white object so that it fills the screen, and set the AUTO W/B BAL switch to AWB.



The white balance adjustment is completed is about 10 seconds.

 Upon completion of the adjustment, the colour temperature display appears in the viewfinder.

Now check that the colour temperature imaged and the colour temperature displayed in the viewfinder match. If they do not tally, it is recommended that the white balance be adjusted again

If it was not possible to adjust the white balance, the WHITE BAL ERROR TRY AGAIN message appears in the viewfinder. In a case like this, check that the lens cable is connected properly and that the subject brightness is suitable, and then adjust the white balance again.

When the white balance should be re-adjusted:
Be absolutely sure to re-adjust the white balance when there has been a change in the light conditions or when the gain setting has been changed. Since hunting may occur when a zoom lens with an automatic irls mechanism is used, adjust the iris gain knob provided on the lens. For further details, refer to the operating instructions

Notes:

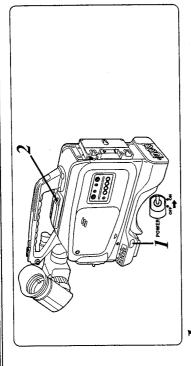
The white balance cannot be adjusted if the white balance selector switch is set to the ATW or PRST position.

accompanying the lens.

above onto the screen since the white balance is adjusted with the lightest part of the subject on the screen taken to be white. Do not allow a subject lighter than the white object shot in step 3Failure to heed this caution may cause malfunctioning. I Do not increase the gain to an unnecessarily high value and then proceed with the automatic white balance (AWB) operation. Failure to heed this caution will cause the iris to be nearly stopped down when AWB is performed so operation will become unstable. In order to ensure that a high picture quality is maintained, it is recommended that AWB be performed immediately before shooting scenes of great importance or value. Remarks:

adjusted automatically inside the unit. Consequently, when the AUTO W/B BAL switch has been operated, the iris will close before opening again: this is normal and not indicative of any ■ When the white balance is adjusted, the black balance is also malfunctioning

Normal recording

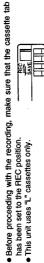


Set the POWER switch to ON.

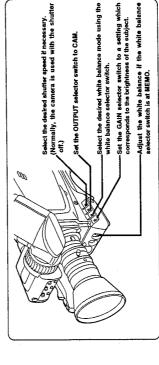
Press the EJECT button to open the cassette holder, and insert the cassette tape. O

has been set to the REC position.

This unit uses "L" cassettes only.



Set the camera switches as shown below 3



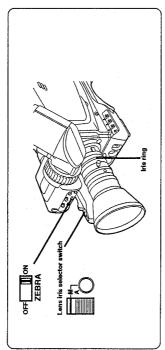
Point the camera at the subject and adjust the focus and zoom.

Press the VTR START/STOP button to start the recording.

Press the VTR START/STOP button to stop the recording

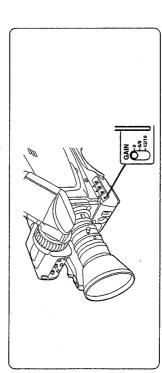
Zebra pattern display

A zebra pattern can be displayed on a bright part (over approx. 85 IRE) of the image.



Gain settings

When shooting in locations with insufficient lighting, a brighter image can be produced by increasing the gain. However, it should be borne in mind that the noise will also increase when the gain is raised.

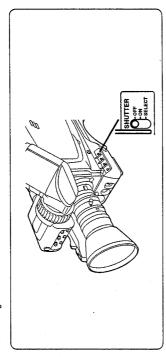


Gain settings of 0/6/12dB or 0/9/18dB are set on the menu item CAMERA SETTING menu screen for operation. (The 0/6/12dB settings were selected when the unit was shipped from the manufacturing plant.) For further details, refer to the menu items (on pages E–49, E–50 and E–54).

Normal recording

High-speed shutter

Camera shake can be minimized when shooting moving subjects by increasing the shutter speed. Furthermore, shooting under fluorescent lights produces flickering images, and this flickering can be reduced by changing the shutter speed when shooting.



How to change the shutter speed

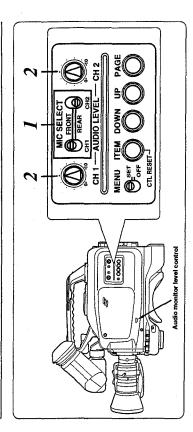
The SHUTTER switch is non-locking at the SELECT position. Each time it is operated at this position, the shutter speed changes in the following sequence: 1/1000-11/2000-1/2000-1/40000-1/8000. When operated again at the 1/8000 setting, the speed returns to 1/100.

Notes:

■ The higher the shutter speed setting, the darker the images will become. Check the brightness of the images in the viewfinder, and adjust the lighting and lens iris. ■ When shooting extremely bright subjects with the shutter speed at a high settling, the smear effect (a form of distortion in which objects appear stretched out vertically) may be more noticeable than in the shutter OFF condition: this is normal and not indicative

of any malfunctioning.

Audio recording



Select the desired input signals using the audio input selector switches.

► FRONT	► REAR
When using the built-in microphone	When using external microphones

\boldsymbol{Z} Adjust the recording levels using the audio level controls.

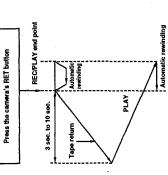
The recording levels can be checked in the viewfinder. Adjust the levels in such a way that the audio level meter for the viewfinder display shows "--------," or thereabouts. (See page E-16)

Notes:

■ Howling may occur when the volume of the sound delivered through the audio monitor speaker is too high. If this occurs, turn the audio monitor level control down to a level at which howling does not occur ■ The line input can be selected instead of the external microphones by setting an internal switch to the corresponding position. For further details, refer to page E–60. Remarks:

Rec review

When the camera's RET button is pressed while the VTR is in the REC PAUSE mode which is established after the tape has finished moving back automatically), rec review is conducted so that the quality of what has already been recorded can be checked.



● The amount by which the tape moves backwards can be controlled from 3 to 10 seconds by either pressing the camera's RET button and releasing it immediately or

 The playback images appear in the viewfinder while the tape is being played back in the rec review mode. holding it down.

<When no recording has yet been made near the rec review start point> The playback images of the blank part of the tape appear in the viewfinder.

well as to the viewfinder. It should be borne in mind that these rec review images will be recorded if a back-up VTR has been connected to record back-up to the video output connectors (BNC and S-VIDEO connectors) as During the rec review operation, the rec review images are output Notes:

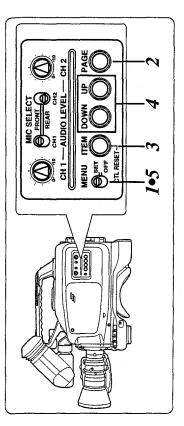
Retake

1x normal tape speed or reverse playback images at 1x normal tape speed can be viewed while the button is held down. When the button is released, the REC PAUSE mode is re-established immediately. This function can be used to retake shots brunning the tape to the desired position while checking the images and by starting When the FF or REW button is pressed in the REC PAUSE mode, playback images at recording again from that position.

Still-picture playback

The STILL mode is established when the PLAY button is pressed during playback. Both the FF and REW LED displays in the operation section light up at this time. Normal playback is resumed when the PLAY button is pressed again.

Setting procedure



Set the MENU SET/OFF switch to SET.

When the MENU SET/OFF switch is set to SET while the unit is in the stop, eject or rec pause mode, the menu screen is displayed.

Press the PAGE button.

The menu screens are switched in succession as shown below by pressing the PAGE button.

- CAMERA SETTING -38885 - VF DISPLAY -► LEVEL METER
IRIS (F No.)
BATTERY
TAPE REMAIN
TC/CTL COUNTER • GAIN SELECT WHITE PRESET AUTO IRIS DETAIL LEVEL CHROMA PHASE CHROMA GAIN TV 4: 3/16: 9 t NO. : 60 dB 96 : 1 : 96 : 97 - TIME/DATE -FRONT PHANTOM FRONT MIC REAR CH1 MIC REAR CH2 MIC CUE REC SELECT -AUDIO ■ TIME/DATE SET ◆ YEAR MONTH DAY HOUR MINUTE t ŧ : NiCd12 - MAIN FUNCTION -TCG CLEAR RECRUN/FREERUN : REC ◆ GARBAGE COLLECTION (Don't power off) ğĕ̈́χ -- MAINTENANCE --SCENE DATA SAVE SCENE DATA UNDEL BATT. SELECT BACK TALLY OPERATION DRUM RUNNING THREADING MENU INITIALIZE

Menu items

Press the ITEM button.

The ITEM button is pressed to select items on each of the menu screens. Each time the ITEM button is pressed, the arrow at the left of the screen moves. The item indicated by the arrow is the item currently selected.

Press the UP or DOWN button.

4

Press the UP or DOWN button to change the setting.

S Upon completion of the settings, set the MENU SET/OFF switch to OFF.

The original viewfinder screen is restored.

Notes:

The setting data is stored in the built-in flash memory several seconds after the MENU SET/OFF switch has been set to the OFF position. Bear in mind that the data will not be stored correctly if the battery or AC adaptor is removed while the MENU SET/OFF switch is still at SET or immediately after the switch was changed to the OFF setting.

MAIN FUNCTION menu

- MAIN FUNCTION - TCG CLEAR
RECRUN/FREERUN : REC
SCENE DATA SAVE
SCENE DATA UNDEL
BATT SELECT
BATT SELECT
BACT TALLY
MENU INITIALIZE

Menu item	Mode setting	Description of function
TCG CLEAR		Clears the time code generator.
RECRUN/FREERUN E	<u>rec</u> Free	Selects whether the time code generator is to be used in the REC RUN or FREE RUN mode. Regeneration is conducted if REC RUN mode is selected.
SCENE DATA SAVE		Stores the SCENE data on the tape. (Refer to the section on SCENE data on pages E-57 and E-58.)
SCENE DATA UNDEL		Restores the SCENE data. (Refer to the section on SCENE data on pages E-57 and E-58.)
BATT. SELECT	NICG12 NICG13 NICG14 DIGIT	Selects the type of battery to be used. NICG12: For an AC adaptor or a 12 V nicket-cadmium battery. NICG13: For a 13.2 V nicket-cadmium battery. NICG14: For a 14.4 V nicket-cadmium battery. DIGIT: For a digital nicket-cadmium battery (same for both 13.2 V and 14.4 V).
BACK TALLY	ON OFF	ON is selected if the back tally LED display is to be used; OFF is selected if it is not to be used.
MENU INITIALIZE		Restores all the menu items to the settings established before the unit was shipped from the factory.

The underlining for the mode settings indicates the modes selected before the unit was shipped from the factory.

Menu items

AUDIO menu

→ AUDIO -
→ FRONT PHANTOM : ON
FRONT MIC : -60 dB
REAR CH1 MIC : -60 dB
REAR CH2 MIC : -60 dB
CUE REC SELECT : MIX

Menu item	Mode setting	Description of function
FRONT PHANTOM	OFF	Sets the phantom power for the front microphone to ON or OFF. ON is selected if the microphone provided with the unit is to be used.
FRONT MIC	-60 dB -50 dB -40 dB	Selects the front microphone input level setting. Select -60 dB, -50 dB or -40 dB depending on the microphone used.
REAR CH1 MIC	-50 dB -50 dB -40 dB	Selects the rear microphone CH1 input level setting. Select -60 dB, -50 dB or -40 dB depending on the microphone used.
REAR CH2 MIC	-50 dB -50 dB -40 dB	Selects the rear microphone CH2 input level setting. Select -60 dB, -50 dB or -40 dB depending on the microphone used.
CUE REC SELECT	CH1 CH2 MIX	Selects the signals to be recorded on the CUE audio track from among the CH1, CH2 and MIX signals.

The underlining for the mode settings indicates the modes selected before the unit was shipped from the factory.

Menu items

CAMERA SETTING menu

- CAMERA SETTING - - CAMERA SETTING - - MHITE PRESET : INDOOR AUTO HIS : 0 DETAIL LEVEL : 2 CHROMA PHASE : 0 CHROMA GAIN : 63 TV 4:3√16:9 : 4:3				_		_	_	_
- CAMERA SE - CAMERA SE WHITE PRESET AUTO IRIS DETAIL LEVEL CHROMA BAIN TV 4:3√16:9	TTING -	: 0/6/12 : INDOO	0:	?;	0:	: 63	:4:3	
	CAMERA SE	♣ GAIN SELECT WHITE PRESET	AUTO IRIS	DETAIL LEVEL	CHROMA PHASE	CHROMA GAIN	TV 4:3/16:9	

88888

► LEVEL METER
IRIS (F No.)
BATTERY
TAPE REMAIN
TC/CTL COUNTER

- VF DISPLAY -

VF DISPLAY menu

- CAMERA SETTING CAMERA SETTING - MUTE PRESET : NDOOF AUTO RIS : 0 DETAIL LEVEL : 2 CHROMA PHASE : 0 CHROMA GAIN : 63 TV 4:3/16:9 : 4:3		
- CAMERA SET - CAMERA SET WHITE PRESET AUTO RIS DETAIL LEVEL CHROMA PHASE CHROMA GAIN TV 4:3√16:9	TING	: 0/6/12 : INDOOR : 0 : 2 : 0 : 0 : 63 : 4 : 3
	- CAMERA SET	→ GAIN SELECT WHITE PRESET AUTO INIS DETAIL LEVEL CHROMA PHASE CHROMA GAIN TV 4:3/16:9

Menu item	Mode setting	Description of function
GAIN SELECT	<u>0/6/12</u> 0/9/18	Selects whether the 0/6/12 dB or 0/9/18 dB settings are to apply to the operation of the camera gain selector switch.
WHITE PRESET	INDOOR OUTDOOR	Selects whether OUTDOOR or INDOOR is to be set when the camera's WHITE BAL selector switch is at the PRST position.
AUTO IRIS	8.0 3.0 3.0	Selects the target brightness of the auto iris. The brightness can be set in 0.1 increments from –3.0 to 3.0. Example: When –1.5 is selected, the iris is closed by approximately 1.5 stops from the factory setting. However, there may be a slight deviation from this value.
DETAIL LEVEL	0 4 9	Finely adjusts the camera detail level. Adjustment is possible from 0 to 16.
CHROMA PHASE	25 o 52	Finely adjusts the camera's chroma phase. Set the value in the + direction if the skin colour is to be made redder or in the - direction if it is to be made more yellow. Any value from -32 to 32 can be set.
CHROMA GAIN	0 : 63	Adjusts the camera's colour intensity. The higher the value, the greater the intensity of the colours. Any value from 0 to 63 can be set.
TV 4:3/16:9	4:3 16:9	Selects whether the camera is to be used for screen dimensions of 4:3 or 16:9.

Selects whether the lens iris f-value is to be displayed on the viewfinder.

S F 외늄

IRIS (F No.)

BATTERY

의 R

Selects whether the audio level meter reading is to be displayed on the viewfinder.

Description of function

Mode setting

Menu item LEVEL METER Selects whether the remaining battery charge is to be displayed on the viewfinder.

Selects whether the remaining tape amount is to be displayed on the viewfinder.

외유

TAPE REMAIN

의 의 의 의 의 의 유 의

Selects whether the viewfinder counter display is to show the time code, user bit, CTL or none of these.

The underlining for the mode settings indicates the modes selected before the unit was shipped from the factory.

E-53

TC/CTL COUNTER

The underlining for the mode settings indicates the modes selected before the unit was shipped from the factory.

TIME/DATE menu

→ YEAR : 97
MONTH : 06
DAY : 13
HOUR : 10
MINUTE : 02

Note:

Make absolutely sure that the arrow is moved to the "■ TIME/DATE SET" position upon completion of the setting, and then press the UP or DOWN button. The settings will not be recorded unless the UP or DOWN button is pressed at the "■ TIME/DATE SET" position.

Menu item	Mode setting	Description of function
YEAR	00 66	Sets the last two digits of the year. Examples: '97' is set for 1997, and "01" for 2001.
МОМТН	. 12	Sets the month using two digits.
DAY	01 : 31	Sets the day using two digits.
HOUR	00 :: 24	Sets the hour (24-hour mode) using two digits.
MINUTE	00 : 59	Sets the minute using two digits.

Menu items

MAINTENANCE menu

ICE -	XXXX XXXX	ECTION
- MAINTENANCE -	OPERATION DRUM RUNNING THREADING	◆ GARBAGE COLLECTION (Don't power off)

 Menu item	. Description of function
OPERATION	Indicates the number of hours during which power has been supplied to the unit to date.
DRUM RUNNING	Indicates the total accumulated number of hours during which the head cylinder has been operating to date.
THREADING	Indicates the number of times a tape was loaded to date.
GARBAGE COLLECTION	Gives the command to collect the garbage in the built-in flash memory. If the "FLASH MEMORY EMPTY" message appears in the viewfinder when the power is turned on, align the arrow with "GARBAGE COLLECTION," and press the UP or DOWN button. Collection of garbage in the flash memory then commence. • Once the collection of garbage in the flash memory has commenced, no operation is possible for about one minute. Upon completion of this processing, normal operation can be resumed. • While the garbage in the flash memory is being collected, do NOT turn off the power. Also ensure that the battery has an adequate charge during this operation. If the power is cut off during the processing, the collection of the garbage in the flash memory will be discontinued and not completed property, and this will affect subsequent operation.

Menu items

N

If SCENE data is used for future non-linear editing or other such applications, it will be possible to do the job extremely efficiently. SCENE data is an information exchange system for enhancing efficiency during

SCENE data (news gathering data recording)

ord		_			
ring shooting and rec	a for each cut.	MARK	MARK	•	MARK
ormation for editing du	sts of the following dat	Recording stop time code	Recording stop time code		Recording stop time code
editing. It operates by gathering information for editing during shooting and record onto the tape.	The SCENE data information consists of the following data for each cut.	Recording start time code	Recording start time code		Recording start time code
editing. It ope onto the tape.	The SCENE	C et 1	Cut 2		Cut 200

The recording start time code and recording stop time code are automatically written.

MARK is written by operating buttons.

A return is made to cut 1 when the cassette tape is replaced.

starts to record the next cut (this is known as overlap recording). For this reason, the position of the SCENE data information's recording stop time code is shifted slightly from the end point of the cut recorded on the tape. In order to ensure frame-to-frame continuity in operation, this unit returns the tape by several frames from the position of the previous cut's recording stop, and then it

MARK operation

The "No MARK" status is established when recording starts.

MARK is an extremely simple memo (3 types: "No MARK," "MARK 1" or "MARK 2") which is inserted during shooting to facilitate editing afterwards.

button. "MARK 1" now appears in the right corner of the viewlinder. When the MARK/CANCEL button is pressed again, "MARK 2" appears, and when the MARK/CANCEL button is pressed yet again, the CANCEL mode is established, and Make up your own rules governing the use of these marks by, for instance, assigning "MARK 1" to one shooting session and "MARK 2" to another. When a situation arises which meets the conditions of the rules you have made up, press the MARK/CANCEL

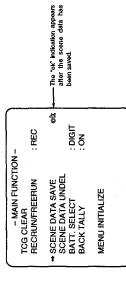
the "MARK" display in the right comer of the viewfinder is cleared. When the recording of the next cut is started, this "MARK" is recorded into the internal memony, and the MARK/CANCEL button may be pressed any number of times until the next recording is started.

Saving the SCENE data onto the tape

The SCENE data is saved before the tape is ejected. Normally, it is saved after the final cut has been shot.

Set the menu SET/OFF selector switch to SET and display the MAIN FUNCTION

Menu item screen (viewfinder)



Use the ITEM button to align the arrow with the SCENE DATA SAVE position, and press the UP or DOWN button.

The VTR starts operating in the recording mode. It takes about 10 seconds for the SCENE data to be saved, and "ok" indication appears.

Notes:

Other operations cannot be performed while the SCENE data is being saved.

is being saved. This is not a malfunction. Once the SCENE data has been saved, the colors will return to their original state. Also, the camera image appears in the viewfinder and is output via the VIDEO OUT jack while the SCENE data is being saved, but an image that is completely green is recorded on the tape. This facility makes it easier during playback to find the exact position where the SCENE data was recorded. The colors of the camera image may change while the SCENE data

When the tape is ejected, the SCENE data stored to date is cleared, and the preparations are made to gather the SCENE data for the next tape.

Remarks:

forgot to save it before the tape was ejected, reload the ejected tape, display the MAIN FUNCTION menu screen, and use the ITEM If it is absolutely essential for the data to be restored because you button to align the arrow with SCENE DATA UNDEL. The data can

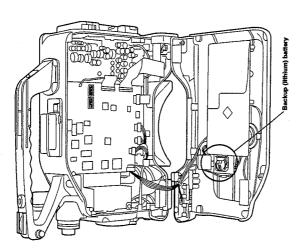
now be restored by pressing the UP or DOWN button. If the tape is reloaded after its ejection and recording is then started, the data will be rewritten by the SCENE data for the new tape. This means that the data cannot be restored.

Replacing the back-up battery

The unit is shipped from the factory with a back-up battery already installed.

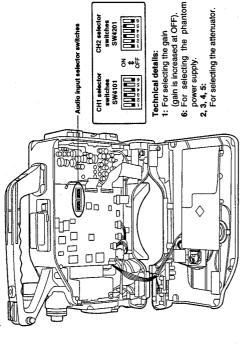
The "BACKUP BATTERY EMPTY" message appears in the viewfinder when the back-up battery has run down.

Consult with your dealer, and replace the battery with a new one (CR2032 or BR2032).



Selecting the audio input

To connect phantom microphones or the line input to the audio input connectors on the rear panel, set the internal switches (audio input selector switches) to the appropriate positions.



When an ordinary microphone is used (factory settings):

ON :3,5

When a phantom microphone is to be used:

ON :3,5,6 OFF:1,2,4

Set the switches to the above positions.

When the line input is to be used:

ON :1,2,4

OF OFF :3,5,6

Set the switches to the above positions.

The line input level can be switched to one of three settings: -6 dB, 0dB or +4 dB.

It is set using the REAR CH1 MIC/REAR CH2 MIC menu item (on the AUDIO menu/see page E-52) but the menu screen display will remain unchanged even when the internal switches are set to the positions shown above. Use the table given below as a reference to convert the input level.

Menu display	For microphone	For line input
8P 09-	8b 09−	-6 dB
-50 dB	-50 dB	8P 0
-40 dB	-40 dB	+4 dB

E-60

Tips on lighting

Studio lighting

If the colour temperature of the light source differs from this value, the colours of the subject will appear differently from what is seen by the eye. The shadows may take on colours or the image Use halogen lamps with a colour temperature of 3,000K to 3,200K for lighting in a studio.

may not appear with the proper cotours. Use lighting of 300 lux or above. If it is less than this value, the screen may appear dark, the contrast may be insufficient, the depth of focus may be shallow or the picture quality may suffer deterioration in some other way.

Ensure that the lighting is directed evenly over the entire subject and that no shadows are

Consult the table below and use the figures given, which are approximations only, as a guideline for evaluating the brightness.

6 8 ş ŝ 000, beriuper griffigial berizeb griffigial Slightly weaker base light directed from the top right Use of halogen lamps (3,000 K to 3,200 K) with a brightness of over 300 lux as the light sources and with the lighting directed eventy over the subject Back light Key light directed from a slightly raised position at the left

 Indoor area lit with fluorescent lighting (400 to 500) Sunlight 1 hour after dawn on a cloudy day (2,000) Sales counters of a department store (500 to 700) Sunlight 1 hour before dusk on a clear day (1,000) Brightness underneath a street lamp (50 to 100) Brightness of a cigarette lighter at 30 cm (15) Sunlight at 10 AM on a cloudy day (25,000) Sunlight at midday on a cloudy day (32,000) Brightness of a candle at 20 cm (10 to 15) • Direct beam from a flashlight at 1 m (250) Outdoors at midday under a cloudless sky By a train window in the atternoon (3,500) Sunlight at 10 AM on a clear day (65,000) Sunlight at 3 PM on a clear day (35,000) Shopping arcade at night (150 to 200) On the beach at the height of summer in the mountains covered with snow Sunlight on a clear day (100,000) 10,000 100,000 (Unit: lux) Actual shooting without lighting ND filter required

long time which is reflecting either a bright light or the light which Do not expose the lens directly to sunlight or shoot a subject for a Notes:

is used for lighting.

Flickering may result if the camera is used to shoot under fluorescent lights. Add extra lighting such as video lights (optional accessories) in cases like this.

if the light quantity is too great, obtain an ND filter (62 mm diameter) from a camera shop, and attach it in front of the lens.

Tips on lighting

Tips on outdoor shooting

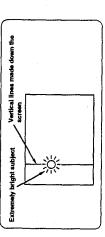
level of the subject itself is extremely high, it is recommended that the light quantity be adjusted using the electronic shutter or that an ND filter be added in front of the lens. This unit does not contain an ND filter. Obtain an ND filter (62 mm diameter) from a camera store, and attach fir front of the lens. When, while shooting a subject outdoors under clear skies or for other reason, the brightness

Phenomena inherent to CCD cameras

The following phenomena are known to arise in CCD cameras.

Smear

Although this unit has extremely low smear characteristics, smear may arise when shooting an extremely bright subject.



Flicker

where the commercial power line frequency is 50 Hz or when a high shutter speed is used. To prevent flicker, set the electronic shutter speed to 1/100 where the commercial power line frequency is 50 Hz and to OFF where it is 60 Hz. Flickering may occur if fluorescent lights are used for the lighting. This is the case in areas

Moiré

Shooting a subject with striped patterns may give rise to the formation of Moiré patterns.

White streaks may appear at high temperatures. They may be more conspicuous when the gain White streaks

Picture roughness

has been increased

Roughness in a specific pattern may appear all over the screen when the temperature is extremely high.

Troubleshooting

If you suspect trouble in your unit, proceed with the inspections or adjustments described below. Consult your dealer if the trouble persists even after you have taken the remedial action suggested.

Symptom	Inspection/adjustment	Reference page no.
 The power fails to come on. 	 Check if the battery still has a sufficient charge. Check if the AC adaptor has been connected securely. 	
●The low battery warning is given (BATT LED or TALLY LED lights or flashes).	 Check if the battery still has a sufficient charge. Check if the battery setting menu item has been set correctly. If the AC adaptor is being used, use the NiCd12 setting for the battery selection menu item. 	E-16
• The "BACKUP BATTERY EMPTY" message appears when the power is turned on. • The real time is not correct.	 The back-up battery may have reached the end of its service life (approx. 1 year). Consult with your dealer and replace it with a new one. 	E-17 E-59
No operation results when the function buttons are pressed.	 Check the viewfinder for error messages. 	E-17 E-18
 The tape cannot be fast forwarded or rewound. 	◆Check if the tape has already been fast forwarded or rewound all the way to the end or beginning of the tape.	

Condensation

Condensation may form on the head cylinder when the unit is moved from a cold location into a warm room or when it is operated in a humid environment.

The principle behind this phenomenon is the same as when droplets of water form on the

window panes of a heated room.

These droplets are called condensation. If the tape is made to travel when condensation has formed, the head cylinder and tape may be damaged.

Take the following precautions regarding condensation:

Before inserting the cassette tape, set the power switch to ON, and check that the VTR LED or TALLY LED is not lighted or flashing and that the HUMID display is not lighted on the

display panel.

Whenever possible, avoid operating the unit in situations where condensation is likely to form.
 When the unit is to be moved, remove the cassette tape before moving it.
 If the HUMID display flashes while the cassette tape is already loaded, take the following

Turn on the power.
 Peas the ELECT button to eject the cassette tape.
 Wait until the HUMID display stops flashing.
 Wait until stop that has stopped flashing, insert the cassette tape and run it.
 Check that no trouble occurs.

Maintenance

- The unit has a precision-made construction inside which is designed to deliver a high performance. Take care to conduct proper maintenance in order to keep the unit in perfect working order for many years to come. Sophisticated technology and equipment are required to replenish the oil, replace the parts or adjust the electrical components. Consult your dealer as to when these steps need to be taken.
 - and dust from inside, replenishing the lubricating oil and replacing the worn parts (such as heads), will make it impossible for the unit to produce quality pictures and proper recordings. It will also shorten the unit's service life. Ensure that the unit is maintained and inspected well Failure to adhere to the maintenance and inspection routine, which involves removing the dirt ahead of time.

Cleaning the heads

When the heads need to be cleaned, use the AJ-CL12LP cleaning cassette. Follow the handling instructions accompanying the cleaning cassette since the video heads may be damaged if it is used incorrectly.

Cleaning the lens

- Maintain and inspect the lens once a year.
- Wiping the lens may leave scratches on it. Use an air blower or a brush with soft bristles to
 blow or brush away the dirt or dust which may have accumulated on the lens surface.
 If grease or fingerprints have been left on the lens, use a lens cleaner available from a camera
 shop, and wipe the lens starting from its center. Make circular motions and work towards the

conditions. Once the lens has been removed from the camera, attach the lens cap to prevent dust and dirt Ensure that droplets of water will not find their way to the lens when shooting in rainy or snowy

accumulating on the inside of the lens.

Cleaning the viewfinder

- Do not use paint thinners or other solvents to remove dirt on the viewfinder.
 Use a lens cleaner available from a camera shop to wipe the lens.
 Under no circumstances must the mirrors be touched. Use an air blower available from a camera store to blow away any dirt or dust which may have accumulated on them.

Service Menu

The following menu allows service personnel for service the AJ-D200.

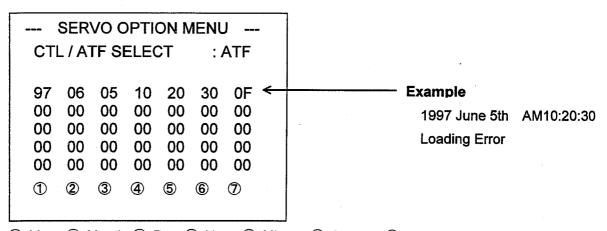
1. Software Version Menu

Set the MENU SET/OFF switch to SET while the **UP** and **DOWN** button depressed. It will display Software version of System Control and Servo.

2. Error Record Menu (Servo Option Menu)

Set the MENU SET/OFF switch to SET while the UP and ITEM button depressed.

The following menu appear in the View Finder.



① Year ② Month ③ Day ④ Hour ⑤ Minute ⑥ Second ⑦ Error Code

Error Code	Error				
04	Detected abnormal condition of the Brake or Pinch Solenoid.				
08	Detected abnormal condition of the Cleaning Solenoid.				
0F	Detected loading or unloading operation not completed less than 10 seconds.				
0E	Detected Drum motor locked up for 3 seconds.				
0D	Detected Capstan motor locked up for 1.5 seocnds.				
0C	Detected Take Up motor locked or abnormal speed condtion up for 3 seconds				
0B	Detected Supply motor locked or abnormal speed condtion up for 3 seconds				
FF	Detected communication error between System Control and Servo.				
09	Detected serial clock communication error from Servo.				
0A	Detected DEW condition.				
11	Detected no Frame pulse.				

3. TC / UB / CTL Set Menu

Set the MENU SET/OFF switch to SET while the DOWN and PAGE button depressed.

The following menu appear in the View Finder.

TC DATA	SET
→ HOUR	: 00
MINUTE	: 00
SEC	: 00
FRAME	: 00
■ TC DATA	A SET

- 1. Select item by ITEM button.
- 2. Change data by UP or DOWN button.

Hour: 0~23

Minute: 0~59

Second: 0~59

Frame: 0~29

- 3. Select TC DATA SET by ITEM button.
- Press UP or DOWN button to set the data. (change flush to light)

↓ Press PAGE button.

- --- UB DATA SET --
 → HOUR : 00

 MINUTE : 00

 SEC : 00

 FRAME : 00

 UB DATA SET
- 1. Select item by ITEM button.
- 2. Change data by UP or DOWN button.

Hour: 0~FF

Minute: 0~FF

Second: 0~FF

Frame: 0~FF

- 3. Select UB DATA SET by ITEM button.
- 4. Press UP or DOWN button to set the data. (change flush to light)

↓ Press PAGE button.

- -- CTL DATA SET --
 → HOUR : 00

 MINUTE : 00

 SEC : 00

 FRAME : 00

 CTL DATA SET
- 1. Select item by ITEM button.
- 2. Change data by UP or DOWN button.

Hour: 0~23

Minute: 0~59

Second: 0~59

Frame: 0~29

- 3. Select CTL DATA SET by ITEM button.
- Press UP or DOWN button to set the data.(change flush to light)
- ↓ Press PAGE button to return TC DATA Set menu.

PC-EVR Adjustment Program

1. Adjustment Program Requirement

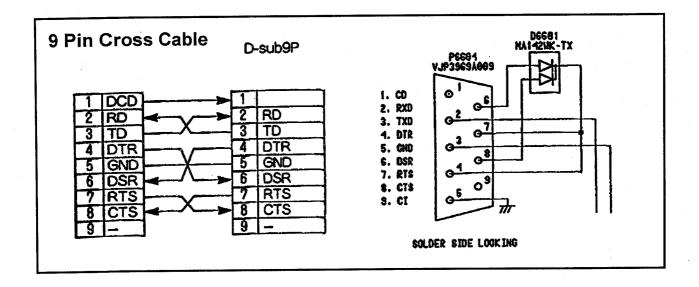
- PC-EVR Adjustment Software (VFK1340)
- Personal Computer (with WINDOWS Ver. 3.1 or WINDOWS 95)
- RS232C Cross Cable (9 Pin Female)

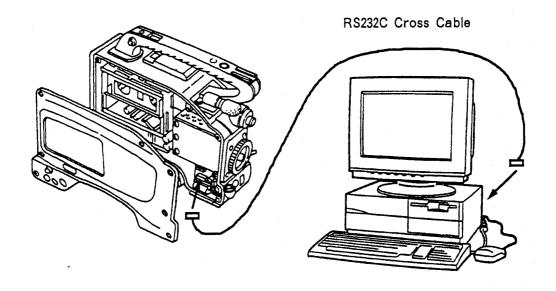
2. Set Up the Program & PC-EVR Connection

Install the Adjustment Program (VFK1340) floppy disk to the hard disk in personal computer.

Place FD in the Floppy Disk drive and copy 【 VSD 】 holder to the Hard Disk drive (C drive).

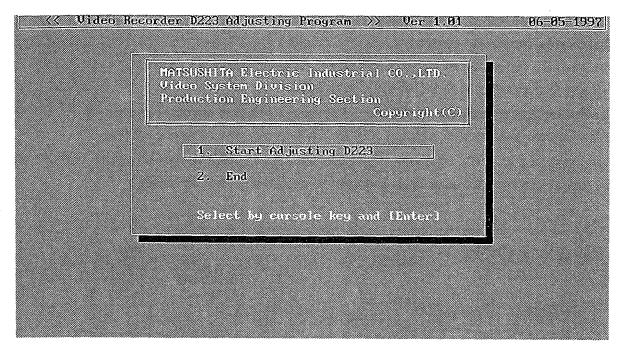
Connect the serial port of PC and P6604 of the TEST Connection C.B.A. at right side of the unit with 9 pin cross cable. (Please remove the Cassette Cover and Right Panel before perform adjustment.)





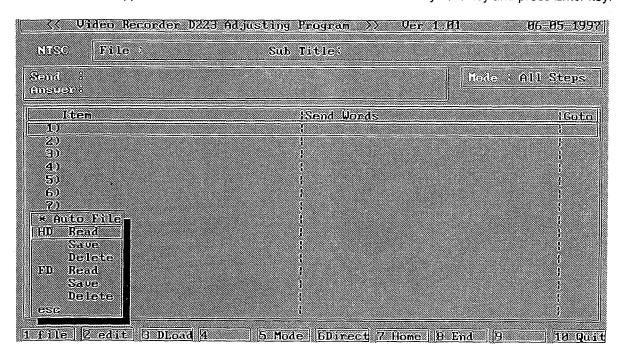
2. Start Up the Program

Type **CD VSD** and press Enter key at DOS prompt. Type **ADJVD** and press Enter key. Type **ADJVD038** then atart this adjustment program and following title appears on the screen.

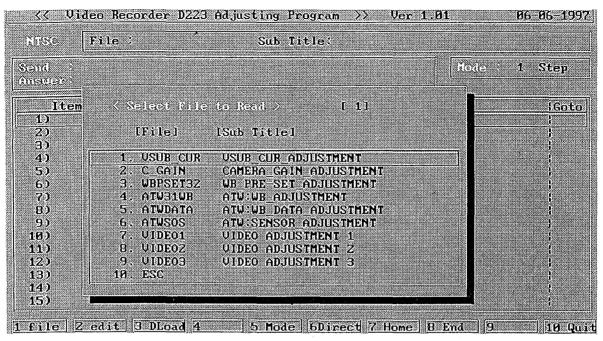


Select the 1. Start Adjusting D223 and press Enter key. Next appears NTSC / PAL (select PAL) and press Enter key.

The *Auto File window appear at left bottom on screen and select HD Read by ↑ ↓ key and press Enter key.

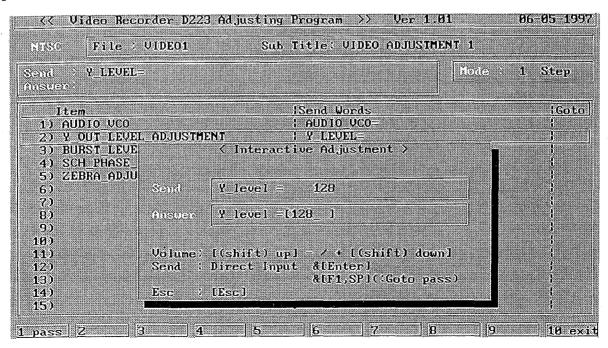


The < Select File to Read > window appear and select Sub_Title refer to each adjustment procedure by ↑ ↓ key and press Enter key.

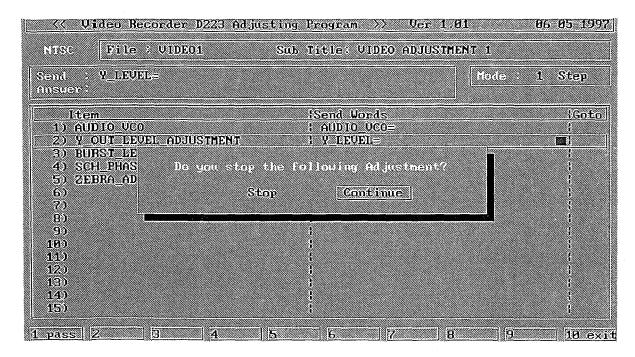


Move to other **Sub_Title**, press **F1** (**File**) key after completed adjustment. It will appear ***Auto File** window and select HD Read. Therefore **< Select File to Read >** window appear again.

The < Interactive Adjustment > window will appear when selected adjustment item as following. Press ↑ ↓ key to change value of data, then press Enter and ESC key write data in EEPROM.



After pressed ESC key the following window appear on screen. **Do you stop the following Adjustment?**If want to go next item: select **Continue** and press Enter key. If want to <u>Exit</u>: select **Stop** and press Enter key.



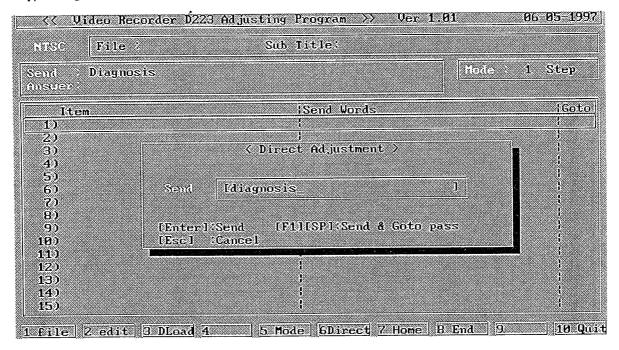
Direct Command List

Command	Contents				
DIAGNOSIS	Inquire of the Return Operation Hours, and Syscon & Servo soft versions.				
ADJMODE	Inquire of the Servo mode setting (Servo mode, Conceal, ECC and Dolby).				
SETUPMENU	Inquire of the Menu set up.				
INITIALIZE=OPERATION	Clear of the Operation hours.				
INITIALIZE=DRUM_RUNNING	Clear of the Drum rotation hours.				
INITIALIZE=THREADING	Clear of the Loading times.				
INITIALIZE=MENU	ALIZE=MENU Initialize the Menu to the Factory default setting.				
SYNC	Force the adjustment data write into the Flush-memory.				
CONCEAL=ON	Conceal ON.				
CONCEAL=OFF	Conceal OFF				
INNERECC=ON	Inner ECC ON				
INNERECC=OFF	Inner ECC OFF				
OUTERECC=ON	Outer ECC ON				
OUTERECC=OFF	Outer ECC OOF				
DOLBY=ON	Dolby ON				
DOLBY=OFF	Dolby OFF				

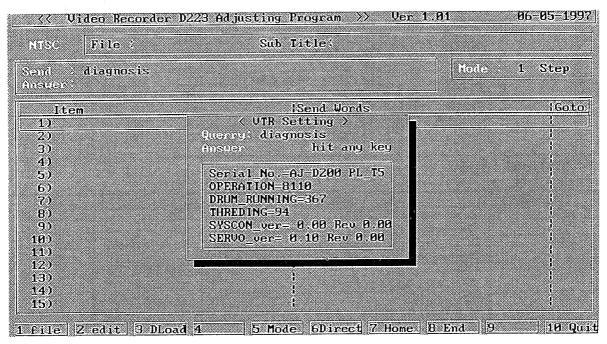
Direct Command operation.

Press F6 (Direct), < Direct adjustment > window appear on screen as shown in below.

Example: Type diagnosis and press Enter key. Therefore appear return data from unit.



Example: < VTR Setting > shows Serial No., Operation hours, Drum rotation hours, Loading threding time and System Control & Servo Processor version.



Tool List

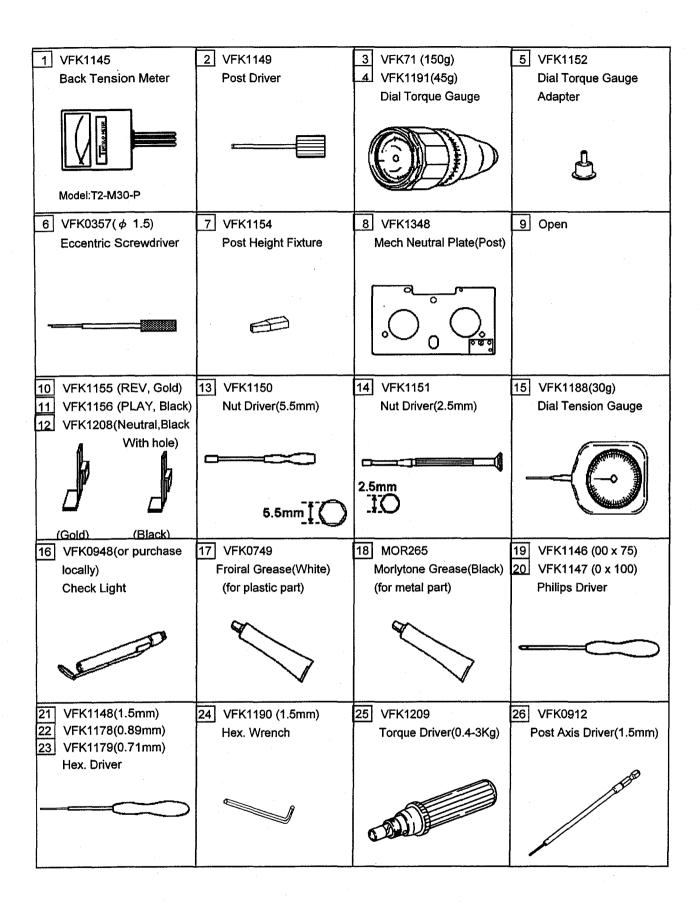
	UI LIST	DART N	JIG & EQUIPMENT	AJ-D700	A.I=D230	Remark
Fig	ITEM	PART No.				Nelliar K
		VFK1145	Back Tension Meter(T2-M30-P)	yes	yes	
2 3 4		VFK1149		yes	yes	
3	ļ	VFK71	Dial Torque Gauge (150g)	yes	yes	
4		VFK1191	Dial Torque Gauge (45g)	yes	yes	
5		VFK1152	Dial Torque Gauge Adaptor	yes	yes	
6		VFK0357	Eccentric Screwdriver(1.5)	yes	yes	
7		VFK1154	Post Height Fixture	yes	yes	
8		VFK1348	Mech. Neutral Plate(Post)	no	yes	New
10		VFK1155	Neutral Position Tool(Gold)	yes	yes	
11		VFK1156	Neutral Position Tool(Black)	yes	yes	
12		VFK1208	Neutral Position Tool(Black w/Hole)	yes	yes	
13		VFK1150	Nut Driver(5.5mm)	yes	yes	
14		VFK1151	Nut Driver (2.5mm)	yes	yes	
15		VFK1188	Dial Tension Gauge(30g)	yes	yes	
16		VFK0948	Check Light	yes	yes	
17		VFK0749	Froiral Grease (for plastic)	yes	yes	
18		MOR265	Morlytone Grease (for metal)	yes	yes	
19		VFK1146	Philips Driver(Fine) (00-75)	yes	yes	
20		VFK1147	Philips Driver (Fine) (0-100)	yes	yes	
21		VFK1148	Hex. Driver (1.5)	yes	yes	
22		VFK1178	Hex. Driver (0. 89)	yes	yes	
23		VFK1179	Hex. Driver (0. 71)	yes	yes	
24		VFK1190	HEX. Wrench	yes	yes	
25		VFK1209	Torque Driver (0.4-3Kg)	yes	yes	
26		VFK0912	Post Axis Driver (1.5mm)	yes	yes	
27		DAQ-12	A/D Board	yes	yes	Purchase locally
28		VFM3680KL	Alignment Tape (No. 1)	no	yes	New (PAL only)
29	1	VFM3681KL	Alignment Tape (No. 2)	no	yes	New (PAL only)
30		VFM3682KL	Alignment Tape (No. 3)	no	yes	New (PAL only)
31		AJ-CL12LP	Cleaning Tape	no	yes	SALES
32		VFK1159	LISTA Software	yes	yes	
33		VFK1186	LISTA CABLE	yes	yes	
34		VFK1340	PC-EVR Adjustment Software	no	ok	New (PAL only)
35		VFK1341	GC Filter (LB40)	no	ok	New
36		VFK1343	CC Filter (LA40)	no	ok	New (PAL only)
37		VFK1347	CC Filter (LB120)	no	ok	New
38		VFK1345	CC Filter Holder	no	ok	New
39		VFK1346	CC Filter Holder Step Down Ring	no	ok	New
40		VFK1158	B. E. R. Counter Tool	yes	ok	
40		VFK1185	B. E. R. Counter Cable	ves	ok	
42		VFK1163	Flush ROM Version-Up Software	no	yes	
			9 Pin Reverse (Cross) Cable	no	ves	Purchase locally
43	4		O I III NOVEL SO (01033) CADIO	1	1	
- 1	I	1		.L		

Alignment Tape

TIME (min)	V1DE0	CUE	PCM
0:00~	Colour Bar SMPTE(75%)	1KHz OVU	1KHz -20dB
	(Component Video Level Confirmation)	(CUE Level	(Audio Leve
7:00~	Colour Bar Full Field(100%)	Confirmation)	Confir-
	(Composite Video Level Confirmation)		mation)
14:00~	H Sweep	6KHz OVU	1
	(Frequency Response)	(A/C Head	
18:00~	Bowtie (500K)	Azimth)	
	(Y/C Timing)		Ì
22:00~	Pulse & Bar	1KHz	
	(Y/C Timing)	300Hz~6KHz	
26:00~	Area Markers	(Frequency	•
		Response)	

VFM3681KL (No. 2)

TIME(min)	Signal
0:00~20:00	ITI Pattern (LISTA adjustment)
VFM3682KL (No. 3)	
TIME (min)	Signal
0:00~10:00	X Value (A/C Head Adjustment)



		<u> </u>	
	28 VFM3680KL	31 AJ-CL12LP	32 VFK1159
A/D Converter Board	29 VFM3681KL	Cleaning Tape	LISTA Software
(For Quatech. Purchase	30 VFM3682KL	(L cassette)	33 VFK1186
Locally)	DVC PRO Alignment Tape		LISTA Cable
	(L cassette)		
	Panssonic DVCPRO	Promotile DVOPRO	
	Partientic DVCPRO		7
34 VFK1340	35 VFK1341 (LB40)	38 VFK1345	40 VFK1158
	36 VFK1343 (LA40)	CC Filter Holder	B.E.R. Counter Tool
	37 VFK1347 (LB120)	39 VFK1346	41 VFK1185
Soltware	CC Filter	CC Filter Holder Step	B.E.R. Counter Cable
	OO I MO	Down Ring	
0 1			***
			14.0
			,
42 VFK1248A			
42 VFK1248A Flush ROM Version-Up			
Software			· ·
		·	
•			

SECTION 2

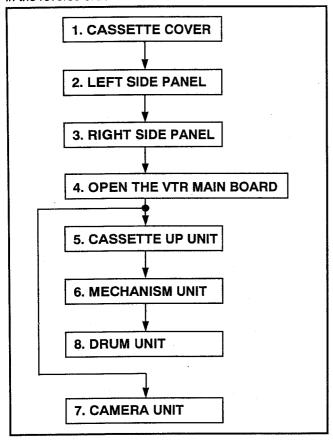
DISASSEMBLY PROCEDURE & MECHANICAL PART REPLACEMENT

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15. Tension Arm Unit Replacement	
16. Brake Solenoid Position Adjustment	
17. Thrust Adjustment Screw Replacement	
marr rajaarina waran ya rapisara marra m	

DISASSEMBLY PROCEDURE

This flow chart indicates the disassembly steps the cabinet pares, P.C. Boards and Mechanism Unit in order to access to items to be serviced. When reinstalling, perform the steps in the reverse order.



DISASSEMBLY METHOD

1. Removal of Cassette Cover

Loosen the 2 screws (A) and slide the cover upward then remove it.

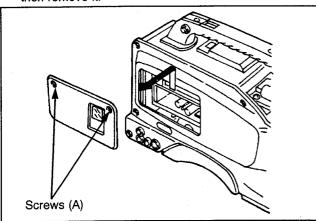


Figure 1-1

2. Removal of Left Side Panel

After removing the cassette cover, loosen the 7 screws (B) and remove the panel.

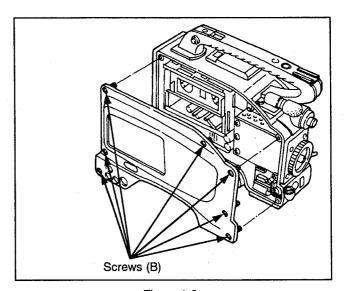


Figure 1-2

3. Removal of Right Side Panel

Loosen the 7 screws (C) carefully disconnect the P10 connector on the VTR Main C.B.A.

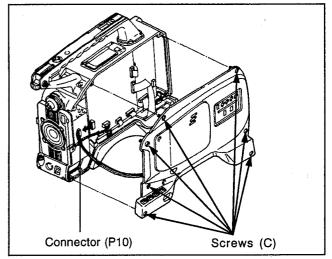


Figure 1-3

4. Open the VTR Main & Power C.B.A.

After removing the right side panel, unscrew the 2 screws (D), 1 screw (E) on the VTR Main board and 3 screws (F), 1 screws (G) on the Power board, then lay down the boards.

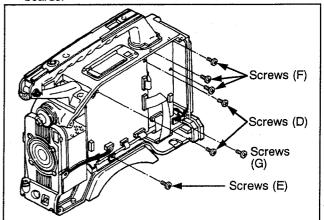


Figure 1-4

5. Removal of Cassette Up Unit

After removing the left side panel, unscrew the 4 screws (H) and remove it.

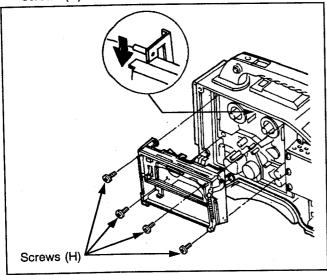


Figure 1-5

6. Removal of Mechanism Unit and Servo C.B.A.

After removing the loth side panel, disconnect the P3001 felxible cable on the VTR Main board.

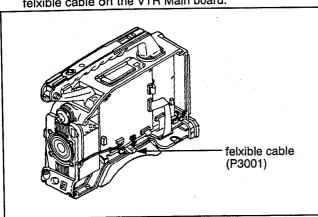


Figure 1-6
Open the board, Disconnect the P2615 connector and

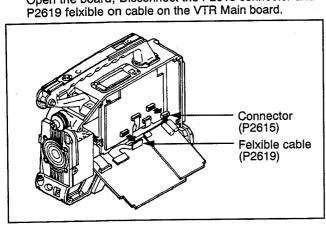


Figure 1-7

Unscrew the 2 screws (J) and slightly pull the AV Out unit then disconnect the P1005 on the Real Jack board. Unscrew the 3 screws (K), Remove the mechanism chassis and the Screw board with care not to scratch the connectors and cables.

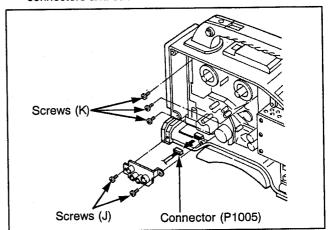


Figure 1-8

7. Removal of Camera Unit

After removing the both panels, disconnect the P6601, P6602 felxible cables and the P6605 connector. Unscrew the a screw (L) on the test connector board.

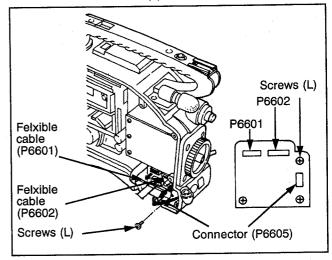


Figure 1-9

Disconnect the P7 connector and the P1 felxible cable on the VTR Main board.

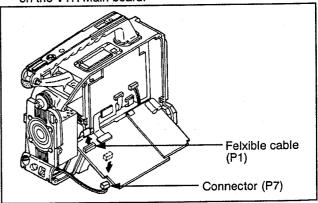


Figure 1-10

Unscrew the 4 screws (M) and pull out the camera unit.

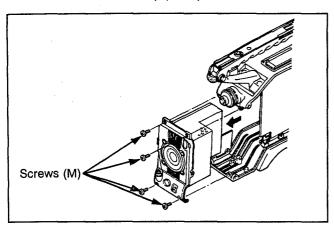


Figure 1-11

8. Removal of Drum Unit

After removing the mechanism unit, disconnect the P613 felxible cable.

Hold the top of the drum unit and unscrew he 3 screw (N).

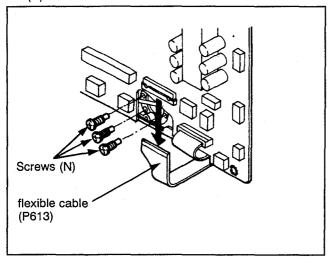


Figure 1-12

Remove the drum unit with care not to scratch the cables.

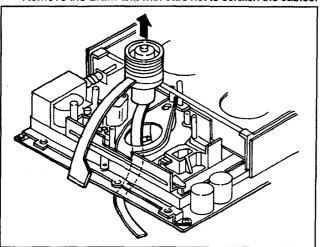


Figure 1-13

9. Emergency Eject

If the cassette tape cannot be ejected with pressing EJECT button or the cassette tape may be damaged by ejecting it, the cassette tape should be ejected out by the following steps.

- 1. Turn the power off.
- Open the rubber cap above the GEN LOCK IN connector. Push in and rotate the red screw counterclockwise.
- 3. The tape is unloaded with click.
- 4. Continue until the cassette tape is ejected.

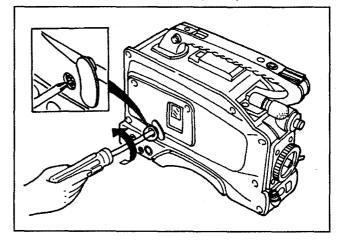


Figure 1-14

Maintenance Schedule

	·		Using Hours					
No.	Name	Part Number	2,000	4,000	6,000	8,000	10,000	12,000
	Tape Path Cleaning		Δ	Clean th	ne Tape Pa	ath at eac	h 500 hou	rs
1	Cylinder Unit	VEG1408	•	•	•	•	•	0
2_	Pinch Arm Unit	VXL2684		• =		• =		0
3	Cleaning Arm Unit	VXL2748	•	•	•	•	•	0
4	S Reel(Rotor Unit)	VEM0633			•			0
5	T Reel(Rotor Unit)	VEM0634			•			0
6	S Brake Arm	VXL2755			•			0
7	T Brake Arm	VXL2756			•			0
8	Thrust Screw Unit	VXQ0556			• •			0
	Mech. Chassis Unit	VXY1287						•
_	1.5" CRT (EVF)	M04KYS07WB	• 5,000 hours by the Operation time					

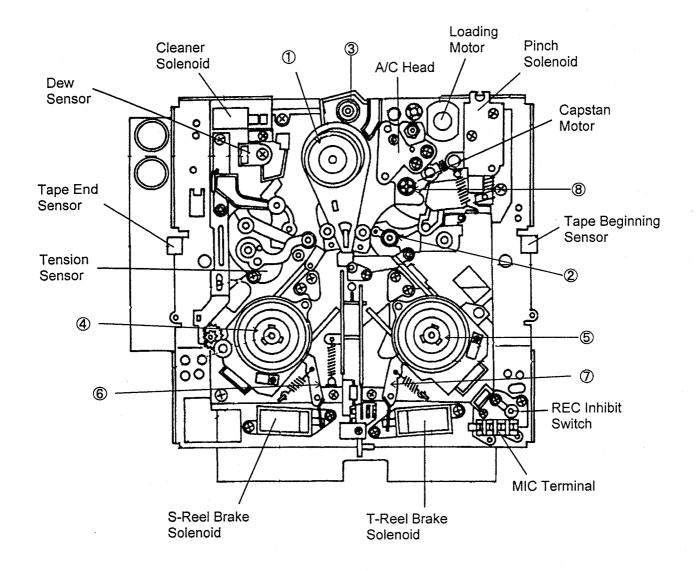
Note: Using Hours are based on the Drum Rotation hours.

Using hours are recommendation. It may depend on temperature, humidity or dusty.

Using hours are listed as the reference of maintenance. They do not mean guarantee hours.

- ©: These parts included in Mech. Chassis Unit. Replacing Mech. Chassis Unit is recommended.
- ■: The lubrication is necessary when replacing the Pinch Arm Unit.
- △: This mark means cleaning is necessary.
- ▲: The lubrication is necessary when replacing the Thrust Screw Unit.

Parts Location

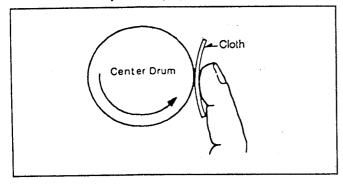


Cleaning Procedures

Make sure the power is OFF before cleaning. Use ethanol (more than 99%) as cleaning liquid.

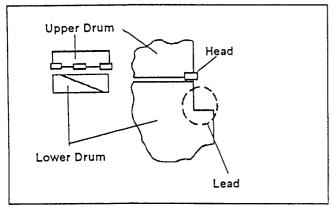
1. Cleaning of Head Chips (Daily)

Clean heads by applying even pressure and rotating cylinder a few times. Never wipe in up and down motion. Never touch a cylinder by naked hand. First wipe with a cloth soaked by cleaning liquid. Then wipe with dry cloth.



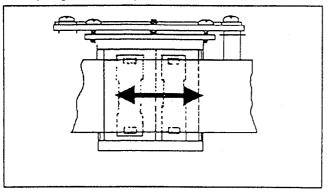
2. Cleaning of Drum Lead (Weekly)

Be careful not touch a head chip. Clean the drum lead with a pick



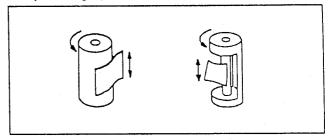
3. Cleaning of A/C Head (Weekly)

Wipe the A/C head with a cloth soaked by cleaning liquid. Wipe again with a dry cloth.



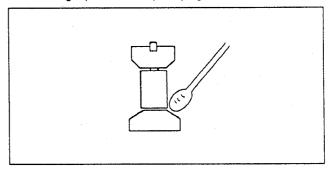
4. Cleaning of Pinch Roller and Capstan (Weekly)

Wipe the Pinch Roller and Capstan with a cloth soaked by cleaning liquid.



5. Cleaning of Post (weekly)

Wind a cloth on a pick. Wipe each post dry with that pick. Wipe again with a dry cloth. For metal posts wipe with cleaning liquid. Then wipe dry again.



Mechanical Parts Replacement and Adjustment Procedures

General

When mechanical parts are replaced, pay attention to the following notes.

- 1. Turn power off before replacing any part.
- 2. If any adjustment is required after replacing parts, perform the required adjustments.
- 3. Use proper fixture tools.
- Make sure to clean the parts after replacement,
 Also when the mechanical parts are replaced,
 follow the replacement procedure.

1. Drum Unit Replacement

(Removal of Mechanism Unit)

Refer to the "Section 2. Disassembly procedures" Item 1 to 6 and remove the mechanism unit and the Servo C.B.A.

(Removal of Cylinder Unit)

- 1. Remove the T1 Guide and Cleaning Arm Unit (Refer to item 12).
- 2. Disconnect P3001, P613 on the Servo C.B.A. and hold the top of the Drum unit then remove 3 screws and carefully pull out the Drum unit with care not to scratch the flexible cables.

Note: Be careful when removing the flexible cable from the connector. Refer to the way to remove the connector as shown in Figure M1.

Note: Never touch the cylinder with a finger directly when pulling out the Drum unit.

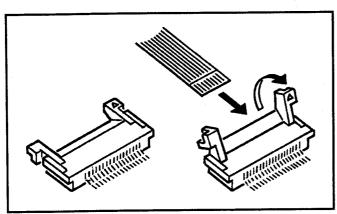


Fig. M1

(Installation)

- 1. Install the new Drum Unit according to the opposite procedures to removing.
- 2. After installing T1 Guide, T1 Guide position adjustment should be performed (Refer to item 12-1).

Note: When installing the Drum Unit, the pin on Mech. Chassis should match hole of Drum Unit as shown in Figure M2.

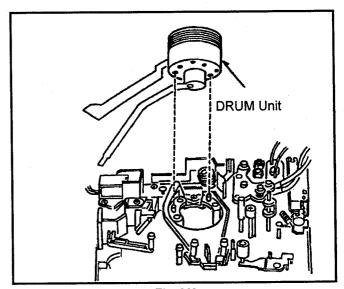


Fig. M2

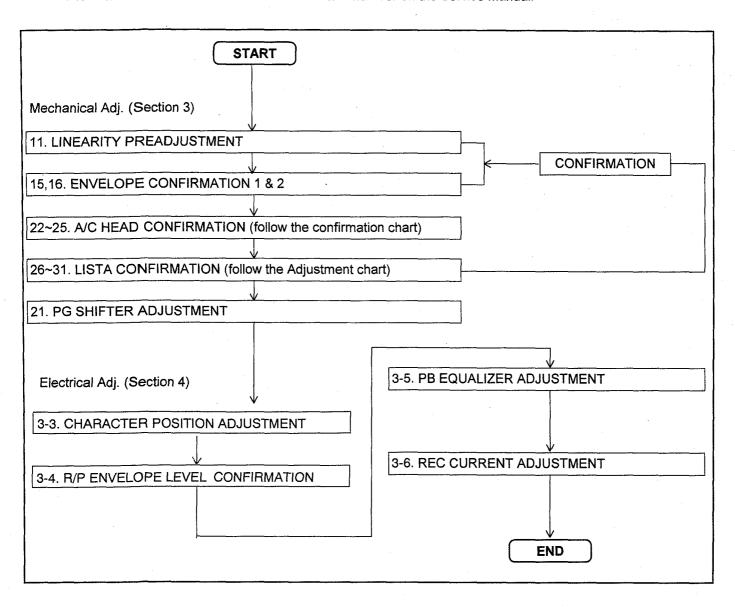
1-1. Adjustment Flow Chart After Drum Unit Replacement

1. After changing the Drum Unit, perform the following steps.

Adjustment Flowchart After Drum Unit & Mech. Chassis Replacement

Note: Confirm the tape path linearity before head replacement.

The number indicated on the chart below is item number on the Service Manual.



2. A/C Head Replacement

2-1. Replacement

※ Required tools: Nut Driver (5.5m/m)(VFK1150) Hex Driver (VFK1148) Hex Wrench (VFK1190)

(Removal)

- 1. Remove the Cassette Cover, Left Side Panel and the Cassette Up Unit.
- Loosen the hex. screw (B) and remove the Nut (C).
 Pick up the Head Height Adjustment Spring and
 then remove the A/C Head Unit as shown in
 Figure M5.

Point: Memorize the height of Nut (C) before removing the Nut (C).

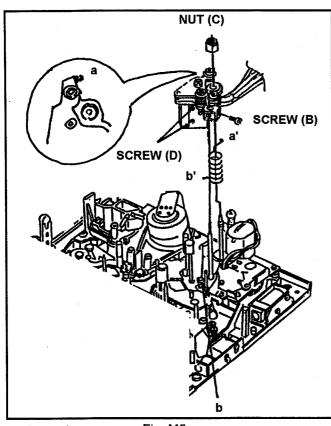


Fig. M5

 Remove the 2 screws (A). Disconnect the connector P1005 on the Rear Jack C.B.A. and P600 on the Servo C.B.A. and then remove the A/C Head from the A/C Head Plate.

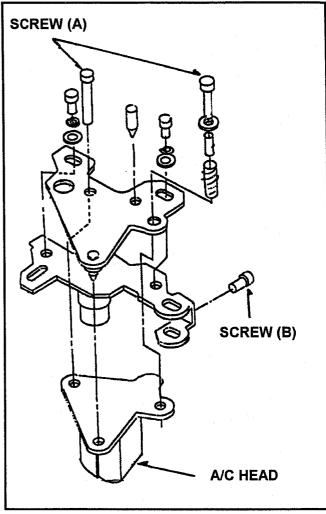


Fig. M6

- 5. Remove 2 screws (D) to remove the Shield Cover as shown in Figure M5.
- 6. Unsolder the lead wires one by one. (Don't unsolder all wires at the same time.)

(Installation)

- Remove the Shield Case from the New A/C Head and solder the lead wires to New A/C Head (Refer to Figure M7).
- 2. Re-install the shield case to A/C Head.
- Install the A/C Head to A/C Head Plate and tighten
 screws (A) so that A/C Head is parallel to A/C Head Plate.
- 4. Install the A/C Head Unit.
- 5. Put on the Head Height Adjustment Spring and tighten the Nut (C).
- 6. Clean the surface of the A/C Head.

Note: After installing, Mechanical and Electrical Adjustments should be performed.

The hex screw (B) is kept loose until the A/C Head Height Adjustment is completed.

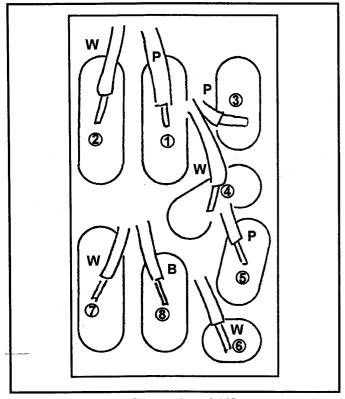
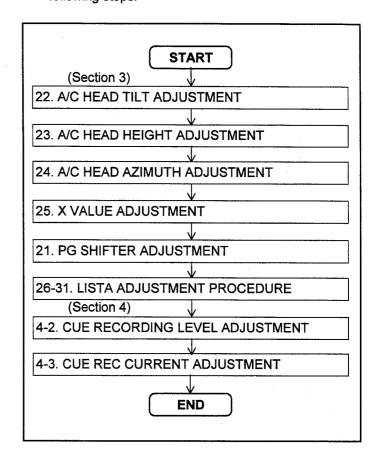


Fig.M7 Connection of A/C Head

A/C Head Side	Cable	e Color	Connector No.
1	PINK	YELLOW	
2	WHITE		
3	PINK	RED	P1005
4	WHITE		
5	PINK	GREEN	
6	WHITE		
7	WHITE	YELLOW	P600
8	BLACK		

2-2. Adjustment Flowchart After A/C Head Replacement

1. After replacing the A/C Head, perform the following steps.



3. Reel Table Replacement

3-1. Supply Reel Rotor Unit Replacement

(Removal)

- Remove the Cassette Cover, both Side Panel, Cassette Up Unit and open VTR MAIN C.B.A.
- 2. Disconnect the connector P614 on the Servo C.B.A..
- Turn the Emergency Gear until S1 Post moved center loading position and remove the S5 Post (Refer to item 14).
- 4. Pull up the Arm Return Spring on the Connection Arm Angle Side and disconnect the Connection Arm Angle.
- 5. Unscrew the 2 screws (C) to remove the Supply Reel Stopper as shown in Figure M8.
- 6. Push the Reel Table to middle position and unscrew the 2 screws (D) to remove the Supply Reel Rotor Unit as shown in Figure M8.
- 7. Remove the 2 Cut Washers to remove the Idler Arm Unit.

3-2. Take Up Reel Rotor Unit Replacement

- Remove the Cassette Cover, both Side Panel, Cassette Up Unit and open VTR MAIN C.B.A.
- 2. Disconnect the connector P615 on the Servo C.B.A.
- 3. Unscrews the 2 screws (E) ,and then remove the Take Up Reel Stopper.
- 4. Push the Reel Table to middle position and unscrew the 2 screws (F) to remove the Take Up Reel Rotor Unit as shown in Figure M8.

CAUTION: Don't touch FG portion with the magnetized screw driver.

(Installation for both unit)

- 1. Install the new Reel Rotor Unit according to the opposite procedures to removing.
- 2. Adjust the "4. Reel Torque Adj." and confirm "2. Main Brake Torque" in the Section 3.

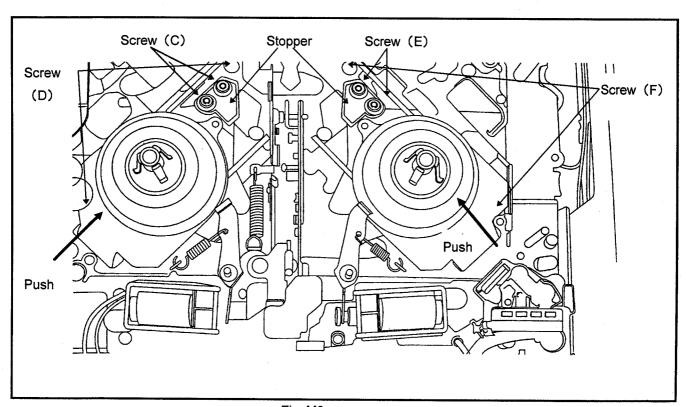


Fig. M8

4. Pinch Solenoid Replacement

(Removai)

- 1. Remove the Cassette Cover, both Side Panel, Cassette Up Unit and open VTR MAIN C.B.A.
- 2. Disconnect the connector P610 on the Servo C.B.A.
- 3. Unscrew the 2 screws (A) and remove the Pinch Solenoid Unit as shown in Figure M9.
- 4. Unscrew the 2 screws (B) and remove the Pinch Solenoid Angle.
- Unscrew the 2 screws (C) and remove the Pinch Solenoid from the Pinch Solenoid Base.

(Installation)

- Install the new Pinch Solenoid according to the opposite procedures to removing.
- 2. After installing, Pinch Solenoid Position Adjustment is required. (Refer to "1. Pinch Solenoid Adj." in the Section 3).

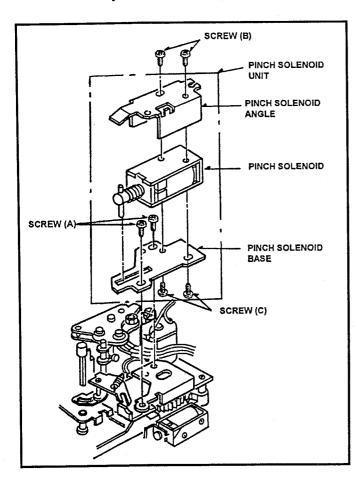


Fig. M9

5. Pinch Arm Unit Replacement

(Removal)

- 1. Remove the Cassette Cover, both Side Panel, Cassette Up Unit and open VTR MAIN C.B.A.
- 2. Remove the Pinch Solenoid Unit (Refer to item 4).
- 3. Remove the cut washer (A) to remove the Pinch Solenoid Lever as shown in Figure M10.
- 4. Remove the cut washer (B) to remove the Pinch Arm Unit as shown in Figure M10.

(Installation)

- 1. Install the new Pinch Arm Unit according to the opposite procedures to removing.
- 2. After installing, Pinch Solenoid Position Adjustment is required. (Refer to "1. Pinch Solenoid Adj." in the Section 3).

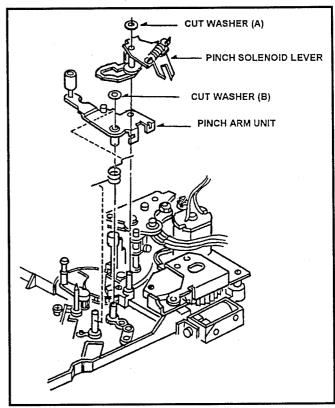


Fig. M10

6. Loading Motor Unit Replacement

(Removal)

- 1. Remove the Cassette Cover, both Side Panel, Cassette Up Unit and open VTR MAIN C.B.A.
- Disconnect the connector P611 on the Servo C.B.A.
- 3. Remove the Pinch Solenoid and Pinch Solenoid Lever. (Refer to item 4 & 5).
- 4. Unscrew the screw (B) to remove the Emergency Shaft as shown in Figure M11.
- 5. Unscrew the 2 screws (C) to remove the Loading Motor Neutral Unit as shown in Figure M11.
- 6. Unscrew the 2 screws (D) to remove the Loading Motor Unit as shown in Figure M11.

(Installation)

- Install the new Loading Motor Unit according to the opposite procedures to removing.
- Install the Pinch Solenoid Unit. After installing, Pinch Solenoid Position Adjustment is required. (Refer to "1. Pinch Solenoid Adj." in the Section 3).

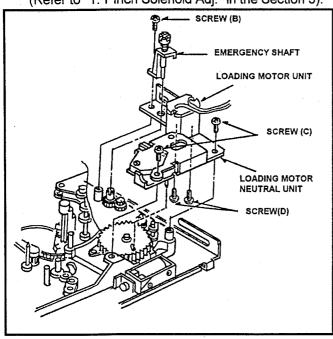


Fig. M11

7. Mode Select Switch Unit Replacement

(Removal)

- Remove the Cassette Cover, both Side Panel, Cassette Up Unit and open VTR MAIN C.B.A.
- 2. Disconnect the connector P612 on the Servo
- Remove the Pinch Solenoid Unit and Loading Motor Neutral Unit (Refer to item 4 to 6).
- 4. Remove the screw (D) to remove the Mode Select Switch Unit from Loading Motor Neutral Unit as shown in Figure M12.

(Installation)

 Install the New Mode Select Switch Unit according to the opposite procedures to removing.

Note: Confirm that the pin of Mode Switch Unit matches groove of Main Cam Gear.

 After installing, Pinch Solenoid Position Adjustment is required. (Refer to "1. Pinch Solenoid Adj." in the Section 3).

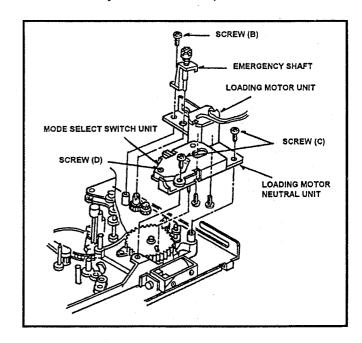


Fig. M12

8. Main Cam Gear Replacement

(Removal)

- 1. Remove the Cassette Cover, both Side Panel, Cassette Up Unit and open VTR MAIN C.B.A.
- 2. Remove the Pinch Solenoid Unit and Loading Motor Neutral Unit (Refer to item 4 to 6).
- 3. Remove the Main Cam Gear as shown in Figure M13.

(Installation)

- Install the Main Cam Gear so that the pin of Main Cam Arm Unit (※) matches the groove position of Main Cam Gear as shown in Figure M13.
- 2. Follow the opposite procedures to removing.
- 3. After installing, Pinch Solenoid Position Adjustment is required. (Refer to "1. Pinch Solenoid Adj." in the Section 3).

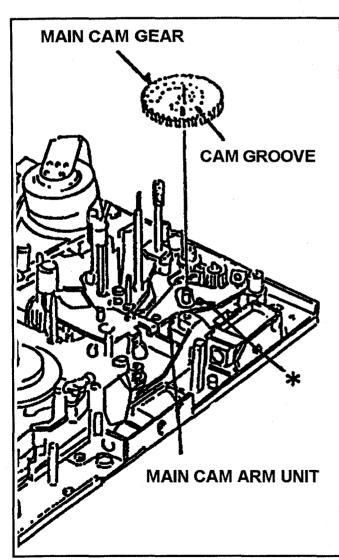


Fig. M13

9. Brake Arm & Brake Solenoid Replacement

(Removal)

- Remove the Cassette Cover, both Side Panel, Cassette Up Unit and open VTR MAIN C.B.A.
- 2. Disconnect the connectors P605, P608 on Servo C.B.A..
- Unscrew the 2 screws (A) to remove the Supply Brake Solenoid and unscrew the screw (B) to remove the Solenoid base as shown in Figure M14
- 4. Remove the cut washer (C) to remove the Supply Brake Arm.
- Unscrew the 2 screws (D) to remove the Take Up Brake Solenoid and unscrew the screw (E) to remove the Solenoid base as shown in Figure M14
- 6. Remove the cut washer (F) to remove the Take Up Arm.

(Installation)

 Install the new cassette Brake Base Unit according to the opposite procedures to removing.

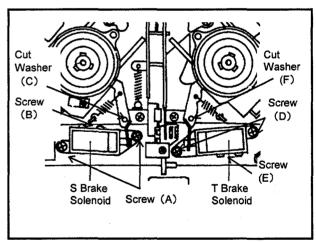


Fig. M14

After installing, the Brake Solenoid Position Adjustment required (Refer to item 16 in this section).

10.MIC Base Unit Replacement

(Removal)

- Remove the Cassette Cover, both Side Panel, Cassette Up Unit and open VTR MAIN C.B.A.
- 2. Disconnect the connector P607 on the Servo C.B.A.
- Unscrew the 2 screws (A) and remove the MIC Base Unit as shown in Figure M15.

(Installation)

- Install the new MIC Base Unit according to the opposite procedures to removing.
- 2. Confirm that the M cassette touches to MIC Base Unit properly.

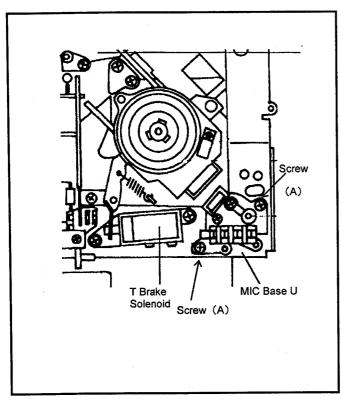


Fig. M15

11. S1 & T1 Post Loading Arm Unit Replacement and Adjustment

(Removal)

- Remove the Cassette Cover, both Side Panel, Cassette Up Unit and open VTR MAIN C.B.A.
- 2. Remove the Mechanism Chassis Unit and the Drum Unit.
- 3. Remove the T1 Guide and the Cleaning Arm Unit.
- 4. Turn the Emergency Gear until middle loading position and unscrew the screw (D), (E) as shown in Figure M16.
- 5. Remove the S5 Stopper Base and the Tension Arm Unit. (Refer to item 14 & 15).
- 6. Unscrew the screw (A) and remove S1 Post from the Loading Rail as shown in Figure M16.
- 7. Remove the Cut Washer (B) and remove the S1 Loading Arm Unit as shown in Figure M16.
- 8. Unscrew the screws (C), and remove the T1 Post from Loading Rail as shown in Figure M16.
- 9. Remove the T1 Boat Unit from T1 Loading Arm Unit as shown in Figure M16.

(Installation)

- Install the new S1 or T1 Loading Arm Unit according to the opposite procedures to removing.
 Then S1 Post Loading Arm Unit Phase Adjustment should be performed.
- 2. After installing, confirm that the S1 and T1 Post moves smoothly on the Loading Rail.

(Adjustment)

- Adjust S1 Post Loading Arm Unit so that the hole
 (A) should match hole (B) as shown in Figure M16.
- 2. When installing the T1 Boat Unit, the hole (A) should match hole (B) as shown in Figure M17.
- 3. Tension Arm, Post Height Pre-Adjustment and Linearity Adjustment (Refer to the Section 3) should be performed.

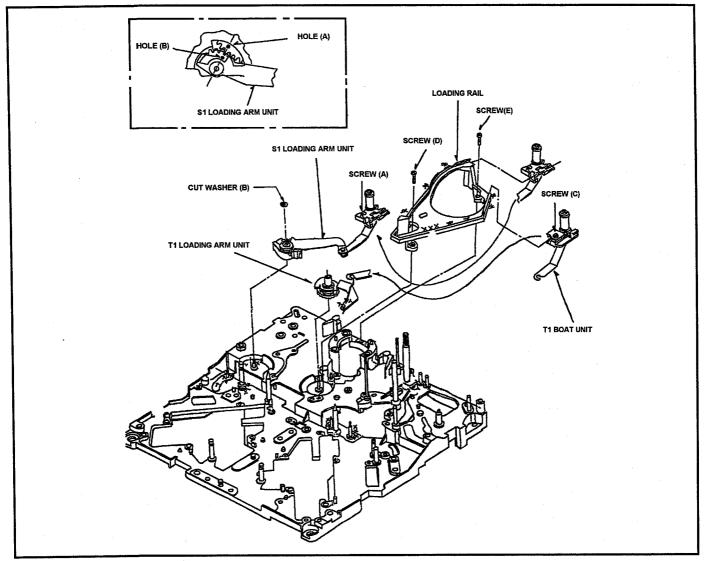
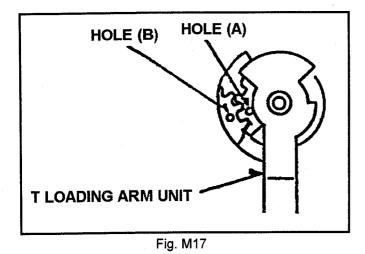


Fig. M16



12. Cleaning Arm Unit Replacement

(Removal)

- 1. Remove the Cassette Cover and Left Side Panel.
- 2. Unscrew the 2 screws (A) to remove the T1 Guide.
- Pick up the tip portion (B) of Cleaning Arm Unit and remove the spring from Cleaner Arm Unit. Then remove the Cleaning Arm Unit as shown in Figure M18.

(Installation)

- 1. Install the cleaning Arm Unit, then hang the spring on Cleaning Arm Unit.
- 2. Install the T1 Guide and tighten 2 screws (A).
- 3. Press the iron core of the Cleaner Solenoid and confirm that the Cleaner Roller is rotated when the cylinder is rotated by hand.
- 4. T1 Guide position adjustment should be performed.



Place the unit in Loading completion mode.

< How to Make the No Tape Loading >

- Set a black tube to TAPE LED sensor.
- Turn on the power and then the VTR begins loading without tape. And unplug DC input to the unit.
- Observe the clearance (B) between T1 Guide and T1 post as shown in Figure M19. And make sure that it is within 0.2 to 0.5mm.
- If not, loosen the 2 screws (A) and adjust the position of T1 Guide by moving to arrow direction (G ⇔ G) so that the clearance (B) is within specification. And tighten the 2 screws (A).

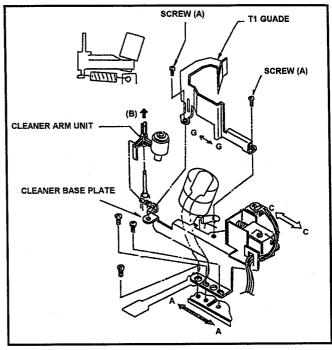


Fig. M18

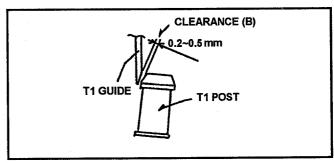


Fig. M19

13.Cleaner Solenoid Replacement and Adjustment

(Removal)

- Remove the Cassette Cover, both Side Panel, Cassette Up Unit and open VTR MAIN C.B.A.
- 2. Disconnect the connector P618 on the Servo C.B.A..
- 3. Unscrew the 2 screws (A) and remove the Cleaner Solenoid Unit as shown in Figure M20.
- 4. Unscrew the 2 screws (B) and remove the Cleaner Solenoid as shown in Figure M20.

(Installation)

- 1. Install the new Cleaner Solenoid according to the opposite procedures to removing.
- 2. After installing, Cleaner Solenoid Position adjustment should be performed as follows.

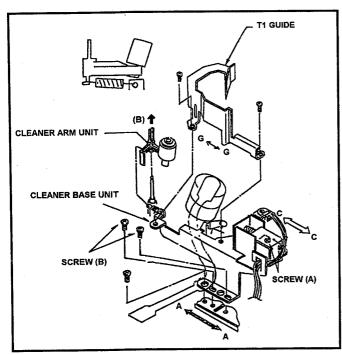


Fig. M20

13-1. Cleaner Solenoid Position Adjustment

Required Tools : Eccentric Driver (VFK0357)

- 1. Press the iron core of Cleaner Solenoid.
- Observe the clearance (D) between Cleaning Arm Unit and Cleaner Base Plate as shown in Figure M21. And make sure that it is within 0.5 to 0.7mm.
- If not, loosen the 2 screws (A) and adjust the position of Cleaner Solenoid Unit by moving to arrow direction (C⇔C) with eccentric driver so that the clearance (D) is within specification. And tighten the 2 screws (A).
- 4. After adjustment, confirm as follows.
- Press the iron core of Cleaner Solenoid to release, and then return the Cleaning Roller to original position.
- Press the iron core of the Cleaner Solenoid and confirm that the Cleaner Roller is rotated when the cylinder is rotated by hand.

Note: If removing the Cleaner Base Plate, Cleaner roller Position Adjustment should be performed.

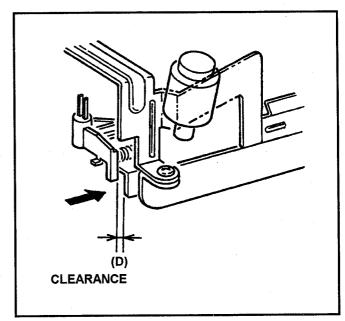
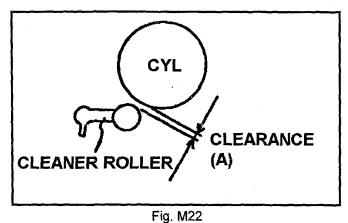


Fig. M21

13-2. Cleaner Roller Position Adjustment

- Required Tools : Eccentric Driver (VFK0357)
- 1. Observe the clearance (A) between Cleaner Roller and Cylinder Unit as shown in Figure M22. And make sure that it is within 1.0 to 1.2mm.
- 2. If not, loosen the 2 screws (B) and adjust the position of Cleaner Base Plate by moving to arrow direction (A ⇔ A) with the Eccentric Driver so that the clearance (A) is within specification. And tighten the 2 screws (B).



14.S5 Post Base Unit Replacement

(Removal)

- 1. Remove the Cassette Up Unit
- Unscrew the screw (A) and remove the S5 Post Base Unit as shown in Figure M23.

(Installation)

- 1. Install the S5 post Base Unit according to the opposite procedures to removing.
- 2. After installing, Post Height Pre-adjustment and Linearity Adjustment (Refer to the Section 3.) should be performed.

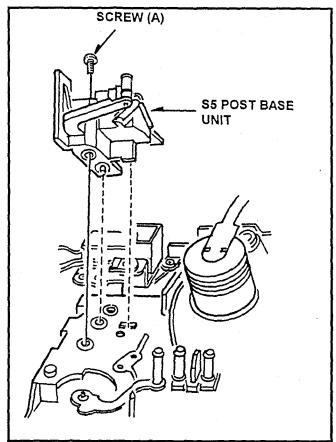


Fig. M23

15.Tension Arm Unit Replacement

(Removal)

- 1. Remove the Cassette Cover and Left Side Panel.
- 2. Remove the Cassette Up Unit.
- 3. Remove the Cut Washer (A) and pick up the Tension Reg. Spring Then remove the Tension Arm Unit as shown in Figure M24.

(Installation)

- 1. Install the new Tension Arm Unit according to the opposite procedures to removing.
- 2. After installing, Tension Arm Adjustment should be performed as follows.

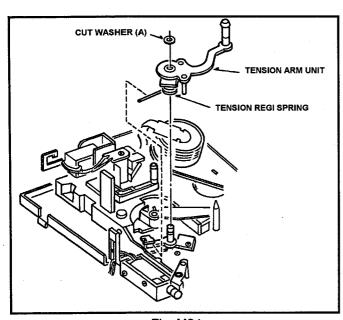
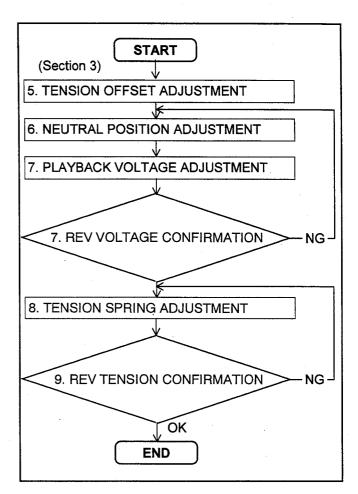


Fig. M24

Tension Arm Adjustment Flowchart



16.Brake Solenoid Position Adjustment.

- Press the iron core of the Brake Solenoid.
- Loosen the 2 screws (A) for S-Brake Solenoid and adjust position of Solenoid unit by moving to slightly left or right so that the clearance (A) is within 0.8 ± 0.2 mm.

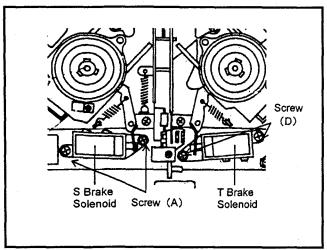
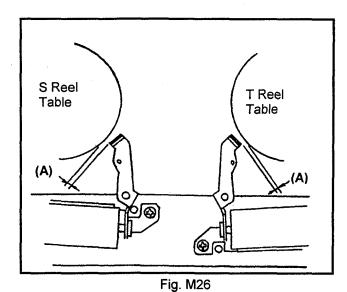


Fig. M25



17.Thrust Adjustment Screw Replacement

- 1. Remove the Thrust Adjustment Screw.
- 2. Enforce cleaning of point department of capstan shaft with an applicator.
- Put the oil (VFK0906) on a new Thrust Adjustment Screw, and install the upper end of the Capstan Housing.
- Turn the Thrust Adjustment Screw slowly to clockwise until the Capstan Rotor just starts turning (separate from the Capstan Rotor).
- 5. Turn the Thrust Adjustment Screw another an angle of 270° from 180° (about 225°) clockwise as shown in the Fig. M8.
- 6. Put the glue (Ex: Three Bond 1401B) on the Thrust Adjustment Screw.
- 7. Confirm whether the Oil Seal doesn't come in contact with the Capstan Housing.

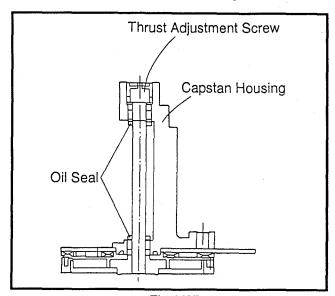


Fig. M27

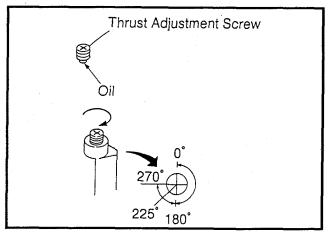


Fig. M28

•

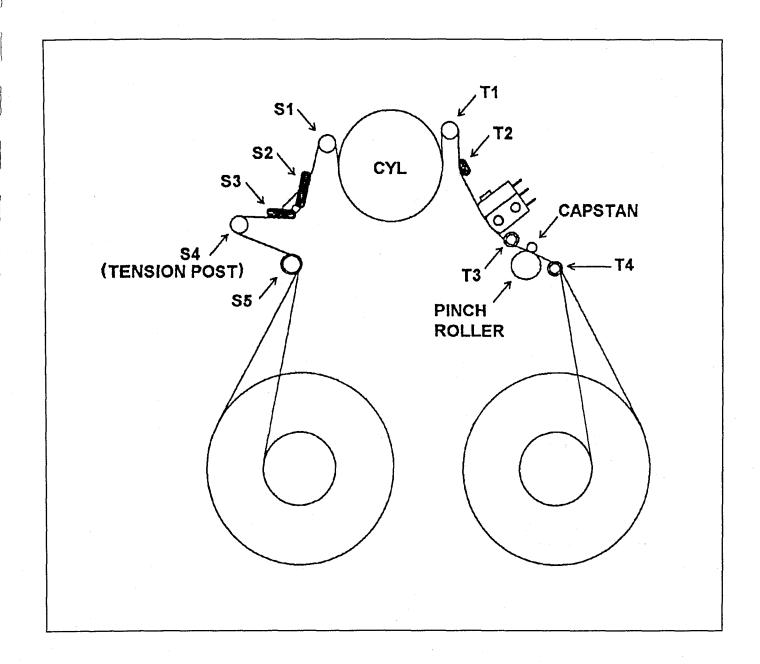
SECTION 3

MECHANICAL ADJUSTMENT

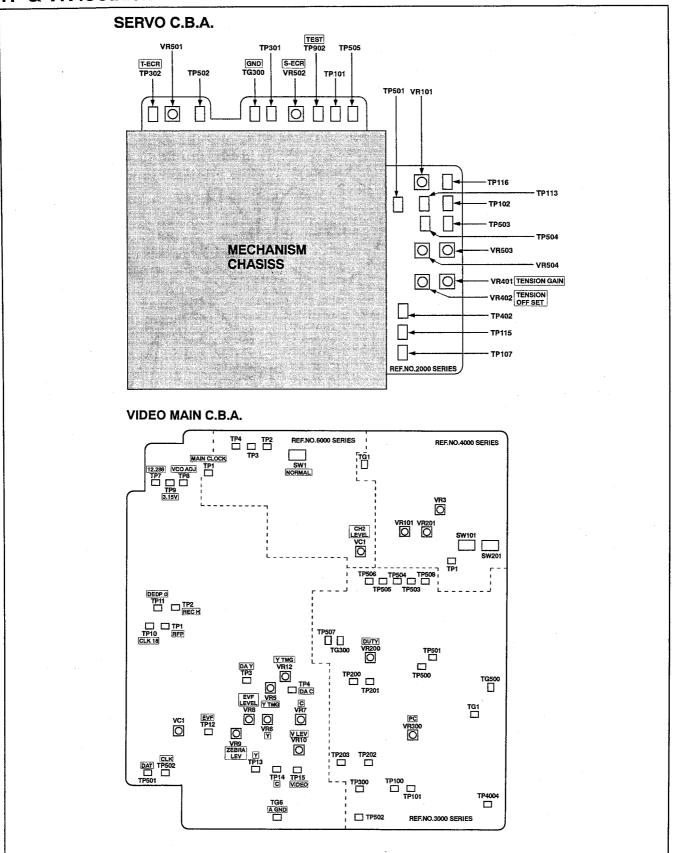
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Mechanical /Servo Adjustment Name of tape transportation



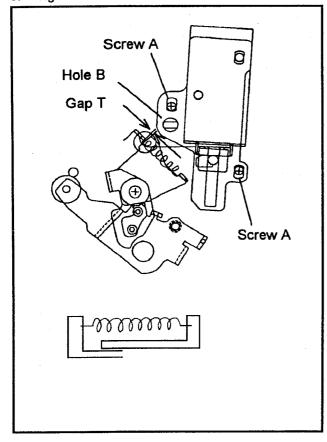
TP & VR location



1. Pinch Solenoid Adjustment

SPEC.	T = 0.3mm
TEST	Gap T
ADJUST	Screw A, Hole B
MODE	Eject(Power OFF)
TOOL	VFK0357

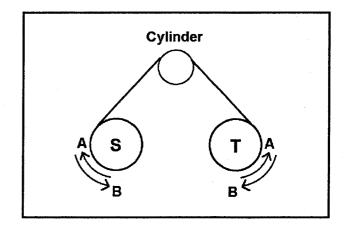
- 1. Confirm the power off.
- Push the pinch roller by hand to be close to capstan.
- 3. Push the pinch solenoid by hand so that the pinch roller contacts capstan.
- 4. Loosen the two screws A.
- Adjust the hole B so that gap T is within specification.
- 6. Tighten the two screws A.



2. Main Brake Torque Confirmation

SPEC.	Direction A : more than 100g Direction B : more than 20g
TEST	S Reel, T Reel
MODE	Eject(Power OFF)
TOOL	VFK71, VFK1191, VFK1152

- 1. Confirm the power off.
- 2. Remove the Cassette Up Unit.
- Install the adapter(VFK1152) to the torque gauge (VFK71).
- 4. Put the torque gauge on S Reel.
- 5. Turn the torque gauge to **direction A** until **S Reel** slips against brake.
- 6. Confirm the torque is within specification.
- 7. Put the torque gauge on T Reel.
- 8. Turn the torque gauge to **direction A** until **T Reel** slips against brake.
- 9. Confirm the torque is within specification.
- 10. Install the adapter(VFK1152) to the torque gauge (VFK1191).
- 11. Put the torque gauge on S Reel.
- 12. Turn the torque gauge to **direction B** until **S Reel** slips against brake.
- 13. Confirm the torque is within specification.
- 14. Put the torque gauge on T Reel.
- 15. Turn the torque gauge to **direction B** until **T Reel** slips against brake.
- 16. Confirm the torque is within specification.



3. Post Height Preadjustment

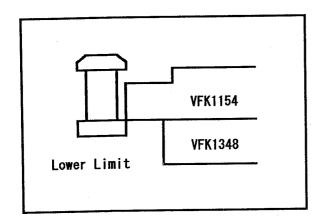
Mode	EJECT (Power OFF)
Tool	VFK1348, VFK1154

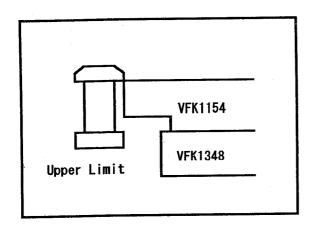
- Turn the power OFF and then set the tube* to cover the sensor LED and place the unit in no tape loading mode.
- Install the Mech. Neutral Plate and adjust each post height as shown in figure.

Note. Lower*: Turn S4 and S5 posts 1 round more counterclockwise from lower limit

pos	it	io	n	

Post	Limit	Post Driver
S4	Lower*	VFK1149
S5	Lower*	VFK1149
Т3	Lower	VFK1151 (2.5 mm Nut Driver)
T4	Lower	VFK1151 (2.5 mm Nut Driver)





4. Reel Torque Adjustment

BOARD	Servo
SPEC.	20±2mV
TEST	TP301(S), TP302(T), TG300 (GND)
ADJUST	VR501(T), VR502(S)
MODE	PLAY
M.EQ	Digital Volt Meter

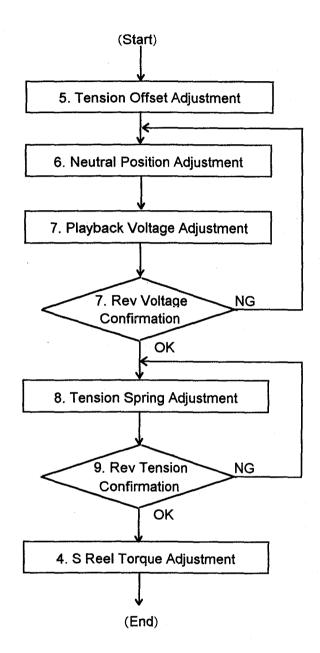
The S Reel Torque adjustment should be perform, after completed the "Tension Adjustment."

- 1. Confirm the power off and make a short-circuit between TP116 and TP505.
- 2. Turn the power ON and then set the tube* to cover the sensor LED and place the unit in no tape loading mode.
- 3. Hold the S-Reel by hand and press the PLAY key
- Adjust the VR502 so that the TP301 (for S Reel) is within specification.
- Hold the T-Reel by hand and press the PLAY key.
- Adjust the VR501 so that the TP302(for T Reel) is within specification.
- 7. Make a open-circuit between TP116 and TP505.

Note.

1. Make a tube* by yourself.

Tension Adjustment Flowchart



5. Tension Offset Adjustment

DOADD	0
BOARD	Servo
SPEC.	2.5±0.05V
TEST	TP402
ADJUST	VR402
MODE	EJECT
M.EQ	Digital Volt Meter

 Adjust the VR402 so that the DC voltage at TP402 is within specification.

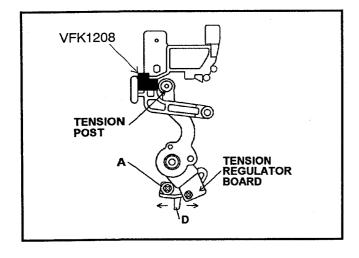
6. Neutral Position Adjustment

BOARD	Servo
SPEC.	2.5±0.1V
TEST	TP402
ADJUST	Sensor
MODE	STOP
TOOL	VFK1208
M.EQ	Digital Volt Meter

- 1. Remove the cassette up unit.
- Set the tube* to cover the sensor LED and place the unit in on tape loading mode.
- Install the black spacer with hole (VFK1208) as shown in figure. Adjust the sensor position so that the TP402 voltage is within specification.
 To adjust, loosen the screw A and adjust the lever D.

Note.

1. Make a tube* by yourself.



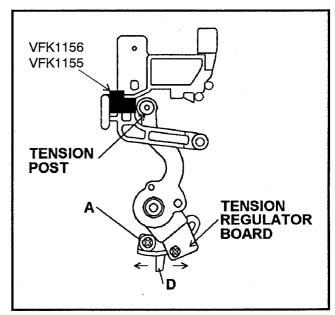
7. Play & Rev Tension Adjustment

BOARD	Servo
SPEC.	(PLAY)3.8±0.05V (REV) 1.2±0.3V
TEST	TP402
ADJUST	VR401
MODE	STOP
TOOL	VFK1156, VFK1155
M.EQ	Digital Volt Meter

- Set the tube* to cover the sensor LED and place the unit in no tape loading mode.
- Install the black spacer(VFK1156) as shown in figure. Adjust the VR401 so that the TP402 voltage is within specification(PLAY). To adjust, loosen the screw A and adjust the lever D.
- Install the gold spacer(VFK1155) instead of the black one. Confirm that the TP402 voltage is within specification(REV).

Note.

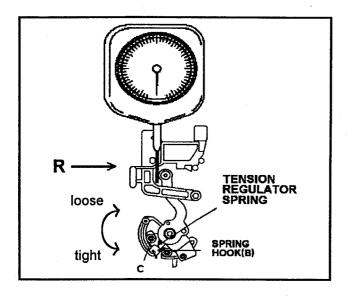
- 1. Make a tube* by yourself.
- In case that it is impossible to adjust within specification, readjust from Neutral Position Adjustment.



8. Tension Spring Adjustment

BOARD	Servo
SPEC.	11 ± 1 g
TEST	TP402
ADJUST	Spring hook(B)
MODE	STOP
TOOL	VFK1188
M.EQ	Digital Volt Meter

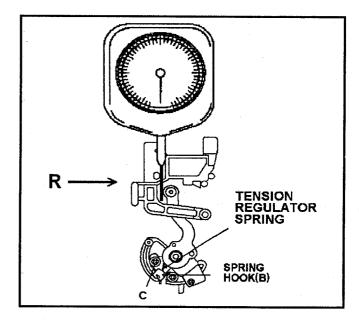
- Remove the cassette up unit.
- Set the tube* to cover the sensor LED and place the unit in no tape loading mode.
- Insert the tension gauge to push the tension post to the direction R until the voltage at the TP402 is 3.8V(PLAY position).
- Adjust the position of hook(B) so that the indication of gauge is within specification. To adjust hook(B), loosen the screw (C).



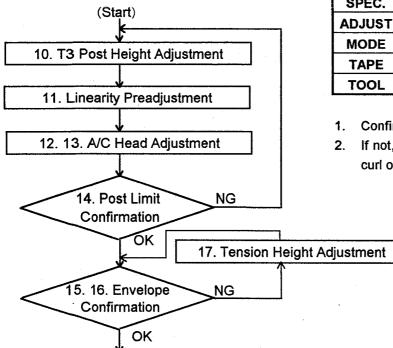
9. REV Tension Confirmation

BOARD	Servo
SPEC.	18 ± 2 g
TEST	TP402
MODE	STOP
TOOL	VFK1188
M.EQ	Digital Volt meter

- 1. Set the tube* to cover the sensor LED and place the unit in no tape loading mode.
- Insert the tension gauge to push the tension post to the direction R until the voltage at the TP402 is 1.2V(REV position).
- Confirm that the indication of gauge is within specification. If not, make the Tension Spring Adjustment again.



Tape Path Adj. Flowchart



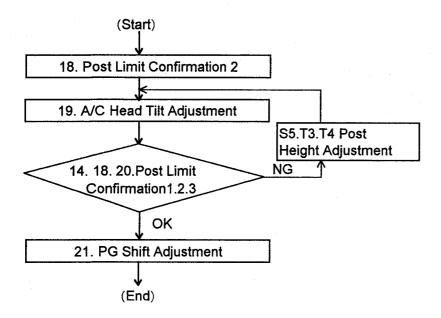
10. T3 Post Height Adjustment

SPEC.	No tape curl
ADJUST	T3 Post Height
MODE	PLAY
TAPE	Blank tape
TOOL	VFK1151

- 1. Confirm that the tape has no curl at T3 post.
- 2. If not, adjust the **T3 post height** so that no tape curl occurs to the tape edge.

Post Limit Confirmation Flowchart

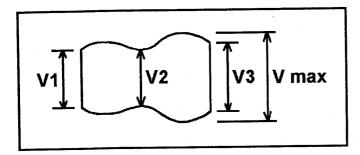
(End)



11. Linearity Preadjustment

; [:		
SPEC.	V1/Vmax, V2/Vmax, V3/Vmax ≧ 0.8	
TEST	TP500(VTR MAIN Board)	
ADJUST	S1, T1 Post Height	
MODE	PLAY(ATF)	
TAPE	VFM3680KL (No.1 : 0~14min)	
M.EQ	Oscilloscope	
TOOL	VFK1149	

- 1. Playback the alignment tape.
- 2. Adjust the **S1 and T1 posts** so that the envelope output is within specification.



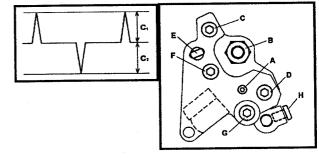
12. A/C Head Height Adjustment

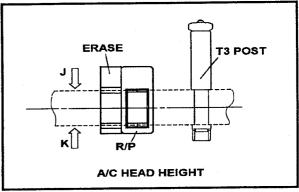
BOARD	Servo	
SPEC.	CTL Output : C1, C2 ≧ 220 (mV)	
TEST	TP107 : CTL Output	
ADJUST	Screw B , H(A/C Head)	
MODE	PLAY	
TAPE	VFM3680KL (No.1: 0~14min)	
M.EQ	Oscilloscope	
TOOL	VFK1150, VFK1190	

- 1. Monitor the TP107 on the Servo board.
- 2. Press the tape to the direction **J** or **K** and confirm that the **CTL** output level is **decreased**.
- If direction J increases CTL output, loosen the screw H and adjust the screw B counterclockwise until CTL output is maximized.
- If direction K increases CTL output, loosen the screw H and adjust the screw B clockwise until CTL output is maximized.
- 5. After tightening the **screw H(2.0kg)**, confirm the level again.

Note.

 Adjust alternately with other A/C head adjustments(Azimuth, Height).





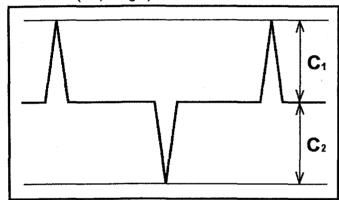
13. A/C Head Azimuth Adjustment

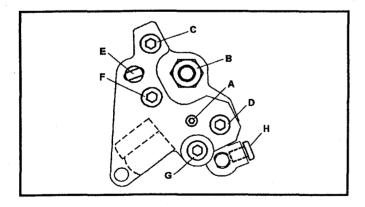
BOARD	Servo
SPEC.	CTL Output : C1, C2 = C1 max, C2 max
TEST	TP107 : CTL Output
ADJUST	Screw F(A/C Head)
MODE	PLAY
TAPE	VFM3680KL (No.1: 0~14min)
TOOL	VFK1148
M.EQ	Oscilloscope

Monitor the TP107 on the Servo Board and adjust the screw F so that the TP107 is maximized.

Note.

 Adjust alternately with other A/C head adjustments(Tilt, Height).





14. Post Limit Confirmation 1

SPEC.	Post limits shown in the table. No tape curl
MODE	PLAY
TAPE	VFM3680KL (No.1: 0~14min)
TOOL	VFK1149 VFK1151

Post Limit Table

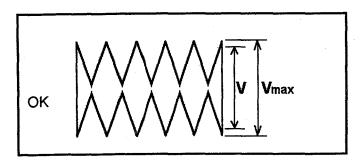
Post	Limit	Adjustment
S5 Post	Lower Limit or Free	S5 Post Height
S4 Post	Lower Limit	S4 Post Height
S1 Post	Upper Limit	Linearity
T1 Post	Upper Limit	Linearity
T3 Post	Lower Limit	T3 Post Height
T4 Post	Lower Limit or Free	T4 Post Height

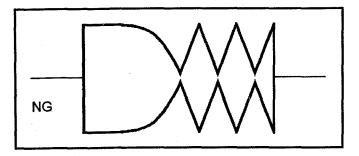
 Confirm the post limit of each post and adjust in case of need.

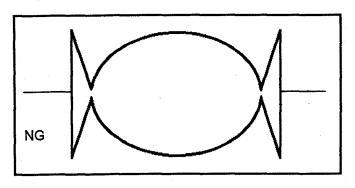
15. Envelope Confirmation 1

SPEC.	V/Vmax ≧ 0.9	
TEST	TP500(VTR MAIN Board)	
MODE	FF, REW, REV(PLAY&REW)	
TAPE	VFM3680KL (No.1:0-14min)	
M.EQ	Oscilloscope	

- 1. Confirm the envelope in each mode.
- 2. If out of specification, adjust the **S4 post height** again.



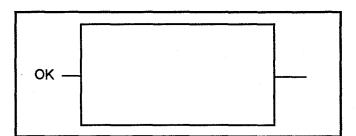


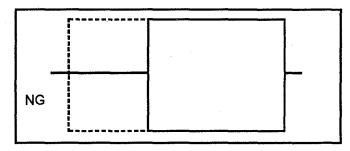


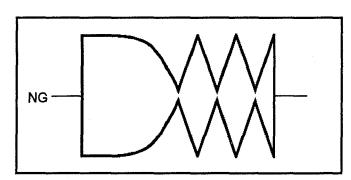
16. Envelope Confirmation 2

SPEC.	Envelope appears immediately.	
TEST	TP500(VTR MAIN Board)	
MODE	REW/REV(PLAY&REW) → PLAY FF → PLAY LOADING → PLAY	
TAPE	VFM3680KL (No.1: 0~14min)	
M.EQ	Oscilloscope	

- Confirm that the envelope appears immediately when the mode is switched from REW to PLAY, from REV to PLAY, from FF to PLAY and from LOADING to PLAY.
- 2. If out of specification, adjust the **S4 post height** again.







17. Tension Height Adjustment

SPEC.	Envelope appears immediately.	
TEST	TP500(VTR MAIN Board)	
ADJUST	S1, T1, S4 Post	
MODE	REW/REV(PLAY&REW) → PLAY FF → PLAY LOADING → PLAY	
TAPE	VFM3680KL (No.1: 0~14min)	
M.EQ	Oscilloscope	

- * This adjustment must be done only when out of specification in Linearity Preadjustment, Envelope Confirmation1 or 2.
- 1. Turn the S4 post 90 degrees counterclockwise and adjust S1 and T1 posts again.
- Confirm that the envelope appears immediately when the mode is switched from REW to PLAY, from REV to PLAY, from FF to PLAY and from LOADING to PLAY.
- 3. If out of specification, repeat 1. again. Do not turn the S4 post more than 360 degrees.

18. Post Limit Confirmation 2

SPEC.	Post limits shown in the table. No tape curl
MODE	REV(PLAY&REW)
TAPE	VFM3680KL (No.1: 0~14min)
TOOL	VFK1149 VFK1151

Post Limit Table

Post	Limit	Adjustment
S5 Post	Free	S5 Post Height
S4 Post	Lower Limit or Free	S4 Post Height
S1 Post	Upper Limit	Linearity
T1 Post	Free	Linearity
T3 Post	Lower Limit	T3 Post Height
T4 Post	Lower Limit	T4 Post Height

1. Confirm the post limit of each post and adjust again in case of need.

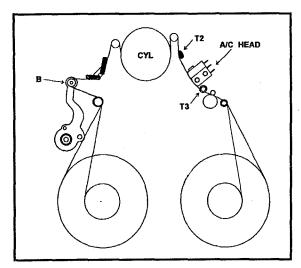
19. A/C Head Tilt Adjustment

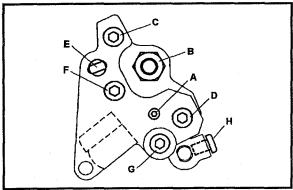
SPEC.	No tape curl, Lower limit at T3 post	
ADJUST	Screws A and G (A/C Head)	
MODE	PLAY	
TAPE	Blank tape	
TOOL	VFK1148, VFK1178	

- 1. Confirm that the screw (G) is tightened with 1.0kg of torque.
- Play back the tape and adjust the A/C head tilt with screw(A) so that the tape path has lower limit at T3 post.

Note.

- 1. Screw(A) : clockwise : Tape goes up at T3 post. counterclockwise : Tape goes down.
- 2. The final touch of the adjustment must be turned clockwise.
- 3. Adjust alternately with each A/C head adjustment(Azimuth, Height).





20. Post Limit Confirmation 3

SPEC.	Post limits shown in the table. No tape curl
MODE	FF, REW
TAPE	L cassette (beginning or ending portion) VFM3680KL (No.1: 0~14min)
TOOL	VFK1149 VFK1151

Post Limit Table

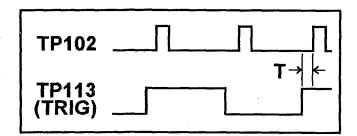
Post	Limit	Adjustment
S5 Post	Free	S5 Post Height
S4 Post	Lower Limit or Free	S4 Post Height
S1 Post	Upper Limit	Linearity
T1 Post	Free	Linearity
T3 Post	Free	T3 Post Height
T4 Post	Lower Limit or Free	T4 Post Height

- Confirm Post Limit Confirmation 1 and 2 playing back beginning or ending portion of L cassette.
- 2. Confirm the post limit of each post and adjust again in case of need.
- 3. If T3 post is adjusted, confirm that the tape has no curl at T3 post when loading or unloading.

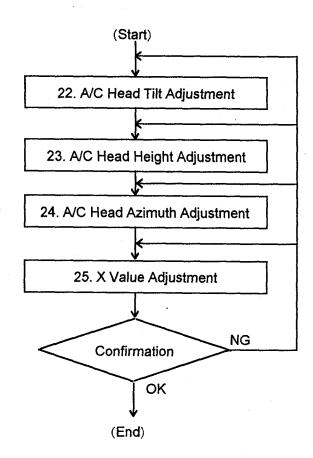
21. PG Shifter Adjustment

BOARD	Servo
SPEC.	126.3±2.5 μ s
TEST	TP113, TP102
ADJUST	VR101
MODE	PLAY
TAPE	VFM3680KL (No.1:0~14min)
M.EQ	Oscilloscope

Adjust the VR101 so that the T is within specification. (Trigger: TP113).



A/C Head Adj. Flowchart



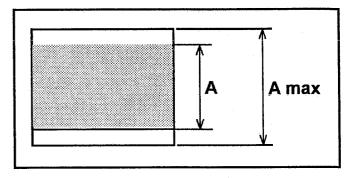
22. A/C Head Tilt Confirmation

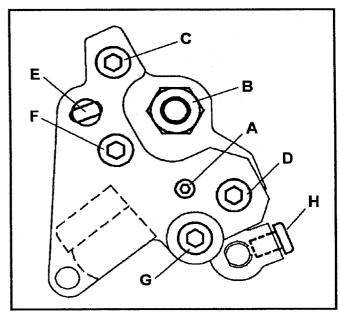
SPEC.	CUE Output : A/Amax ≥ 0.9
TEST	TP4004(VTR MAIN Board)
ADJUST	Screw A, G(A/C Head)
MODE	PLAY
TAPE	VFM3680KL (No.1: 14~22min)
TOOL	VFK1178, VFK1148
M.EQ	Oscilloscope

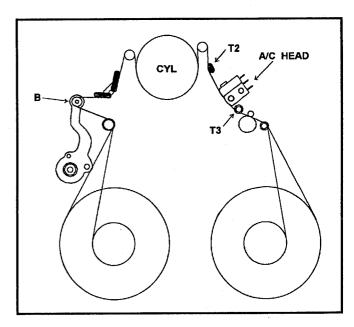
- Playback the CUE portion(6kHz) of the Alignment tape.
- 2. Confirm that the screw G and H are not loosened.
- Vibrate the tension arm horizontally (B direction) and confirm that the output level (TP4004) is within specification.
- If out of specification, loosen the screw G and adjust the screw A, then tighten the screw G with 1.0kg torque

Note.

- The final touch of the adjustment must be turned clockwise. After the adjustment, confirm that the screw A is not loosened.
- 2. When the screw A is adjusted, make Post Limit Confirmation 1 again.

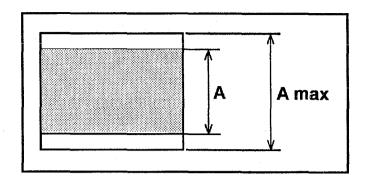




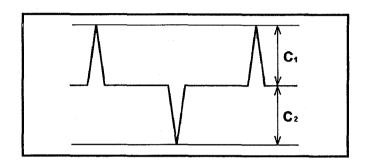


23. A/C Head Height Confirmation

	9
SPEC.	CUE Output : A = A max CTL Output : C1, C2 ≧ 220mV
TEST	TP4004 (VTR MAIN Board) TP107 (Servo Board)
ADJUST	Screw B, H (A/C Head)
MODE	PLAY
TAPE	VFM3680KL (No.1: 14~22min)
TOOL	VFK1150, VFK1190
M.EQ	Oscilloscope

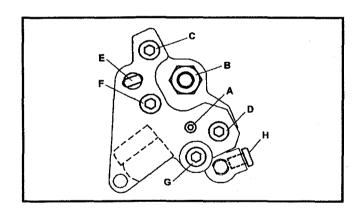


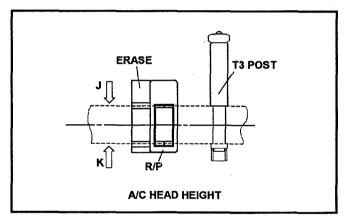
- 1. Confirm that the screw H is tightened.
- 2. Playback the CUE portion(6kHz) of the Alignment tape.
- 3. Push the tape to the **direction J** or **K** and confirm that the **TP4004** level is not increased.
- 4. If it is increased, make "A/C Head Height Adjustment" again.



Note.

1. Adjust alternately with A/C Head Azimuth adjustments.

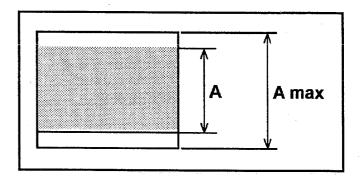


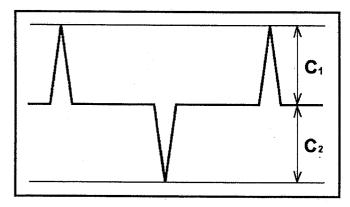


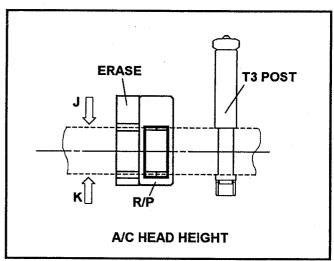
24. A/C Head Azimuth Confirmation

SPEC.	CUE Output : A = A max CTL Output : C1, C2 ≧ 220mV
TEST	TP4004 (VRT MAIN Board) TP107 (Servo Board)
ADJUST	Screw F (A/C Head)
MODE	PLAY
TAPE	VFM3680KL (No.1: 14~22min)
TOOL	VFK1148
M.EQ	Oscilloscope

- Playback the CUE portion(6kHz) of the Alignment tape.
- 2. Push the tape to the **direction J** or **K** and confirm that the **TP4004** level is not increased.
- 3. If it is increased, make "A/C Head Azimuth Adjustment" again.



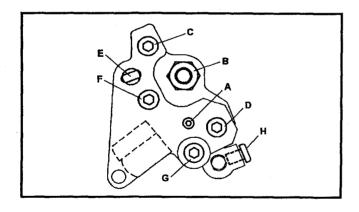


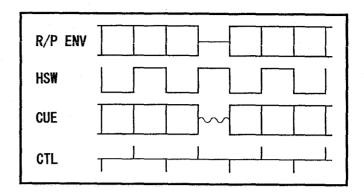


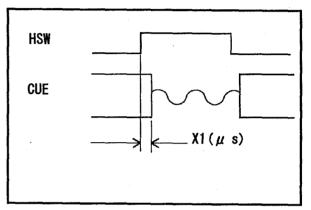
25. X Value Adjustment

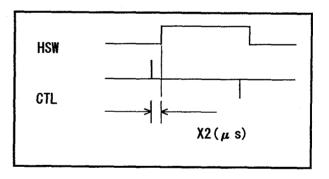
	·	
SPEC.	$-250\mu s$ ≤ X1, X2, X3 ≤ 250 μs	
TEST	TP500 : R/P ENV (VTR MAIN Board) TP300 : HSW (VTR MAIN Board) TP4004 : CUE (VTR MAIN Board) TP107 : CTL (Servo Board)	
ADJUST	A/C Head	
MODE	PLAY(ATF control)	
TAPE	VFM3682KL (X Value)	
TOOL	VFK0357, Hex Wrench	
M.EQ	Oscilloscope	

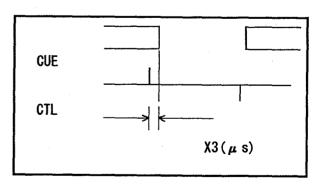
- Adjust A/C Head Azimuth so that the CTL and lack part of CUE are match in the phase.
- Confirm the lack track of R/P envelope and select the HSW correspond with it (The lack track corresponds to Lch(HSW: High)).
- 3. Adjust CUE phase (X Value) so that the lack part of CUE and selected HSW are match in the phase. To adjust X Value, loosen the screws C and D. Adjust the hole E and then tighten the screws C and D with 2.5kg torque.]
- 4. Adjust the **Azimuth** at the same time so that the relation between the CTL and CUE is kept.
- 5. Confirm that X1, X2 and X3 are within specification.



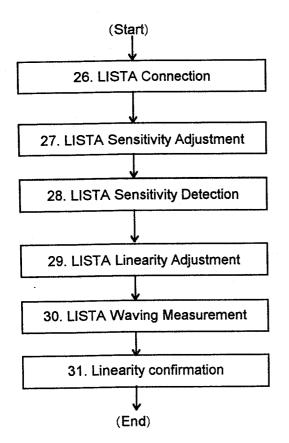








Linearity Adjustment Flowchart



26. LISTA Connection

BOARD	Servo
TEST	TP115 : ATF Error (Servo Board) TP113 : HSW_R (Servo Board) TG300 : GND (Servo Board)
TAPE	VFM3681KL (No.2 : LISTA master)
M.EQ	LISTA

- 1. Confirm that the power is turned off and make a short-circuit between TP902 and TP116.
- 2. Connect LISTA cable between A/D board and the test points as shown in table above.
- 3. Execute LISTA * * E.EXE. (* * is a software version.)
- 4. Select "<2>AJ-D700" menu in the LISTA menu.
- 5. Select the number of the alignment tape. If the alignment tape data is not entered, input the data written on the enclosed paper into PC manually.

Linearity monitor system of track using ATF error signal for DVCPRO -- LISTA PRO --PC-AT Ver.1.0 <<AJ-D700>>

<1>Sensitivity Measurement[---mV/um]

<2>Linearity Measurement

<3>Data Save / Load

[C:\LISTA]

<4>Alignment Tape

<5>Peak Hold Setting

[0000000]

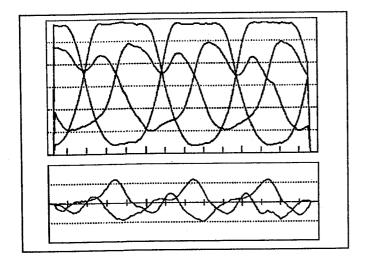
[30sec] <6>ATF Error Signal Monitor

<7>Quit

27. LISTA Sensitivity Adjustment

BOARD	Servo
SPEC.	Sensitivity : 100 ± 10 (mV/μm)
TEST	TP115 : ATF Error (Servo Board) TP113 : HSW_R (Servo Board) TG300 : GND (Servo Board)
ADJUST	ATF Gain (EVR)
MODE	+1.2% Playback
TAPE	VFM3681KL (No.2 : LISTA master)
M.EQ	LISTA, EVR

- 1. Set up the EVR tool according to Connection figure at the beginning of Electrical Adjustments.
- 2. Confirm that the power is turned off and make a short-circuit between **TP902** and **TP116** to place the unit in +1.2% Playback mode.
- 3. Playback an alignment tape.
- Select <6>ATF Error Signal Monitor menu and display the sensitivity data.
- Press the [→] or [←] key in PC so that the sensitivity value which is described as Sens. Value is within specification.
- 6. After the adjustment, press ESC key to exit to the menu.



28. LISTA Sensitivity Detection

BOARD	Servo
SPEC.	Sensitivity : 100 ± 10 (mV/μm)
TEST	TP115 : ATF Error (Servo Board) TP113 : HSW_R (Servo Board) TG300 : GND (Servo Board)
MODE	+1.2% Playback
TAPE	VFM3681KL (No.2 : LISTA master)
M.EQ	LISTA

- Confirm that the power is turned off and make a short-circuit between TP902 and TP116 to place the unit in +1.2% Playback mode.
- 2. Playback an alignment tape.
- 3. Select <1>Sensitivity Measurement menu and start the sensitivity detection.
- 4. Confirm that the sensitivity value is within specification.
- 5. If out of specification, repeat the steps 3 and 4.
- 6. If still out of specification, make "LISTA Sensitivity Adjustment again.

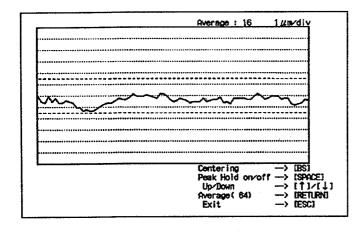
29. LISTA Linearity Adjustment

BOARD	Servo
SPEC.	Linearity : Less than 3μm
TEST	TP115 : ATF Error (Servo Board) TP113 : HSW_R (Servo Board) TG300 : GND (Servo Board)
ADJUST	S1, T1 Post Height
MODE	LISTA mode
TAPE	VFM3681KL (No.2 : LISTA master)
TOOL	VFK1149
M.EQ	LISTA

- Confirm that the power is turned off and make a short-circuit between TP902, TP116 and TP101 to place the unit in LISTA mode.
- 2. Playback an alignment tape.
- 3. Select <2>Linearity Measurement menu, and display the linearity.
- 4. Adjust the S1 post height and T1 post height so that the linearity is within specification.

Note.

- 1. Lower part of the monitor shows the lead.
- 2. Current linearity is red line.



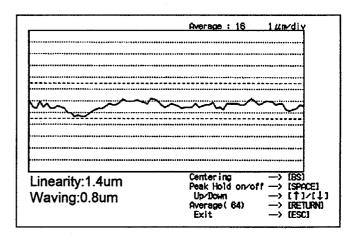
30. LISTA Waving Measurement

BOARD	Servo
SPEC.	Waving : Less than 1.5µm
TEST	TP115 : ATF Error (Servo Board) TP113 : HSW_R (Servo Board) TG300 : GND (Servo Board)
ADJUST	S1, T1 Post Height
MODE	LISTA mode
TAPE	VFM3681KL (No.2 : LISTA master)
TOOL	VFK1149
M.EQ	LISTA

- Confirm that the power is turned off and make a short-circuit between TP902, TP116 and TP101 to place the unit in LISTA mode.
- Playback an alignment tape.
- 3. Select <2>Linearity Measurement menu, and display the linearity.
- 4. After linearity is displayed, press the SPACE key to hold the peak (Peak-Hold) during 30 seconds.
- 5. After Peak-Hold, press the SHIFT key and } key together to display the measurement value and confirm that the value is within specification.
- 6. After the adjustment, press ESC key to exit to the menu.

Note.

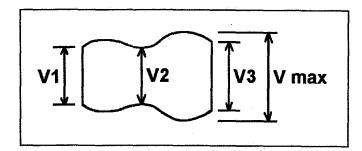
- 1. Confirm that waving value is almost same from the entrance to the exit.
- 2. If out of specification because of wrong post limits, adjust the S1 and T1 posts again.



31. Linearity Confirmation

SPEC.	V1/Vmax, V2/Vmax, V3/Vmax ≥ 0.8
TEST	TP500(VTR MAIN Board)
MODE	PLAY(ATF)
TAPE	Blank Tape
TOOL	VFK1149
M.EQ	Oscilloscope

- Record the color bar signal.
- 2. Play back the recorded portion and confirm that the envelope output is within specification.



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1. POWER

1-1. DC Voltage Adjustment

ITEM	TEST	ADJUST	SPEC.
3.15V ADJ.	* TP9	VR5	3.15+0.05V/
	/ TG300		-0.00V
3.6V ADJ.	TP4	VR3	3.6±0.05V
5.0V ADJ.	TP5	VR2	5.0±0.05V
5.6V ADJ.	TP3	VR1	5.6±0.05V
-5.6V ADJ.	TP8	VR6	-5.6±0.51V
9.0V ADJ.	TP6	VR4	9.0±0.05V
48V Confirm	TP9		44.0±4.0V

Note:

*The test point of 3.15V adjustment is on the MAIN C.B.A., other TP and VR are on the POWER C.B.A. (GND: TP2)

<< PC-EVR Operation >>

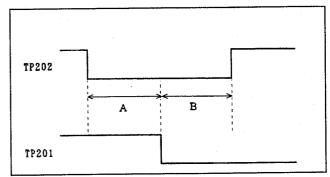
- 1. Select Start Adjustment D223 and press Enter.
- 2. Select "PAL" and press Enter.
- 3. Press F1 (File) key.
- 4. Select "HD Read" on * Auto File and press Enter.
- Select adjustment item of Sub Title on < Select
 File to Read >.
- 6. Press "F5 (Mode)" key and set "1 Step or All Steps" mode.
- 7. Select adjustment item by ↑ or ↓ key and press Enter.
- Adjust value by ↑ or ↓ key at < Interactive
 Adjustment > window.
- 9. Press Enter to Exit from above window.

2. PRE-SHUFFLE

2-1. PLL POS. Adjustment

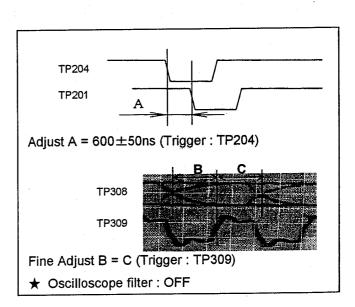
BOARD	PRE-SHUFFLE
TEST	TP201, TP202
ADJUST	PC-EVR: PLL_POS1_PAL
MODE	EE
TAPE	
M.EQ	Oscilloscope
SPEC.	B=A ± 10%

Select PC-EVR " VIDEO ADJUSTMENT 1 " ⇒ "1.
PLL_POS_ADJUSTMENT ".



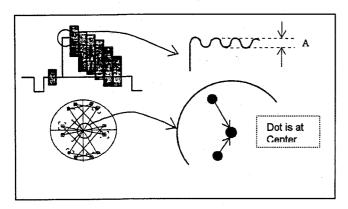
2-2. INH POS. Adjustment

BOARD	PRE-SHUFFLE
TEST	TP201, TP204, TP308, TP309
ADJUST	VR201
MODE	EE
TAPE	
M.EQ	Oscilloscope
SPEC.	A = 600 ± 50ns, B = C



2-3. Carrier Balance Adjustment

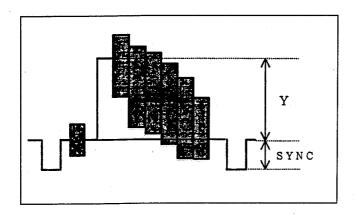
BOARD	PRE-SHUFFLE
TEST	VIDEO out
ADJUST	VR609 (PR), VR610 (PB)
MODE	PLAY
TAPE	VFM3680KL (Color Bar)
M.EQ	WFM, Vector Scope
SPEC.	A ≦ 10mVp-p



2-4. Video & SYNC Level Adjustment

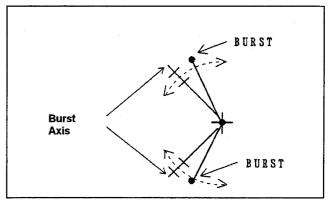
BOARD	PRE-SHUFFLE
TEST	VIDEO out
ADJUST	PC-EVR: Y_LEVEL
	VR602 (SYNC)
MODE	PLAY
TAPE	VFM3680KL (Color Bar)
M.EQ	Oscilloscope or WFM
SPEC.	$Y = 700 \pm 15 \text{mVp-p}$
	SYNC = 300 ± 4 mVp-p

Select PC-EVR " VIDEO ADJUSTMENT 1 " ⇒ "2. Y_LEVEL_ADJUSTMENT", And SYNC Level adjust by VR602.



2-5. Burst Phase Adjustment

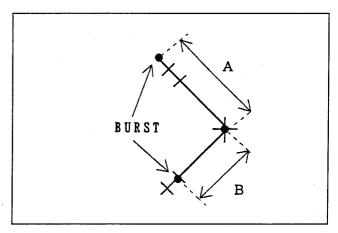
BOARD	PRE-SHUFFLE
TEST	VIDEO out
ADJUST	VR608
MODE	PLAY
TAPE	VFM3680KL (Color Bar)
M.EQ	Vector Scope
SPEC.	Vector Scale (see below)



Adjust the both Burst phase align to the Burst Axis of the Vector Scope.

2-6. QUAD Adjustment

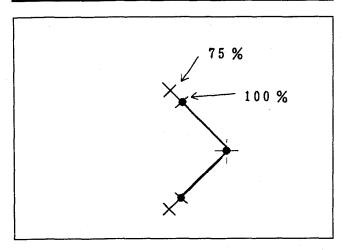
BOARD	PRE-SHUFFLE
TEST	VIDEO out
ADJUST	VC601
MODE	PLAY
TAPE	VFM3680KL (Color Bar)
M.EQ	Vector Scope
SPEC.	A = B



Adjust the Burst level A and B are same level.

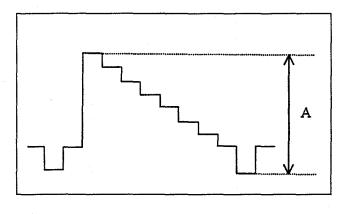
2-7. Burst Level Adjustment

BOARD	PRE-SHUFFLE
TEST	VIDEO out
ADJUST	VR607
MODE	PLAY
TAPE	VFM3680KL (Color Bar)
M.EQ	Vector Scope
SPEC.	Burst Level = 100% Scale



2-9. Y Out Level Adjustment

BOARD	PRE-SHUFFLE
TEST	S-VIDEO (Y out)
ADJUST	VR802
MODE	PLAY
TAPE	VFM3680KL (Color Bar)
M.EQ	WFM or Oscilloscope
SPEC.	A = 1.00 ± 0.02Vp-p



2-8. Chroma Level Adjustment

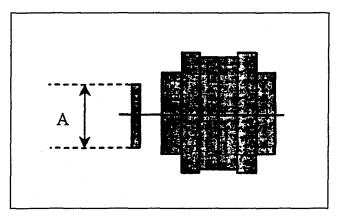
BOARD	PRE-SHUFFLE
TEST	VIDEO out
ADJUST	VR604 (PB)
	PC-EVR: C_LEVEL (PR)
MODE	PLAY
TAPE	VFM3680KL (Color Bar)
M.EQ	Vector Scope
SPEC.	

Select PC-EVR " VIDEO ADJUSTMENT 1 " ⇒ "3. CHROMA_ADJUSTMENT(PR_LEVEL) ".

Adjust PR level by PC-EVR first and PB level by VR so that Red dot Becomes into center of square mark on the Vector Scope. And confirm other colour dot on the each square marks.

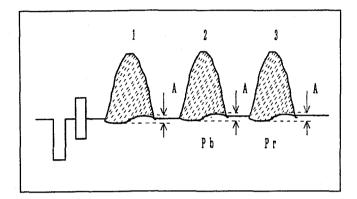
2-10. C Out Level Adjustment

BOARD	PRE-SHUFFLE
TEST	S-VIDEO (C out)
ADJUST	VR803
MODE	PLAY
TAPE	VFM3680KL (Color Bar)
M.EQ	WFM or Oscilloscope
SPEC.	A = 300 ± 6mVp-p



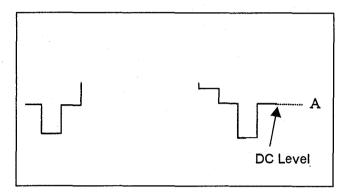
2-11. Y/C Timing Adjustment

BOARD	PRE-SHUFFLE
TEST	VIDEO out
ADJUST	VR603 (PB), VR605 (PR)
MODE	PLAY
TAPE	VFM3680KL (Pulse & Bar)
M.EQ	WFM or Oscilloscope
SPEC.	A = Minimize



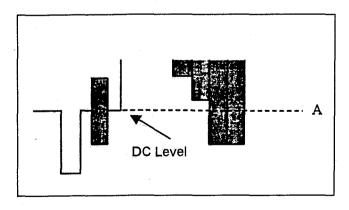
2-13. Y Out DC Adjustment

BOARD	PRE-SHUFFLE
TEST	TP802
ADJUST	VR801
MODE	EE
TAPE	
M.EQ	Oscilloscope
SPEC.	$A = 0 \pm 0.02V$



2-12. Video Out DC Adjustment

BOARD	PRE-SHUFFLE
TEST	TP804
ADJUST	VR804
MODE	EE
TAPE	
M.EQ	Oscilloscope
SPEC.	$A = 0 \pm 0.02V$

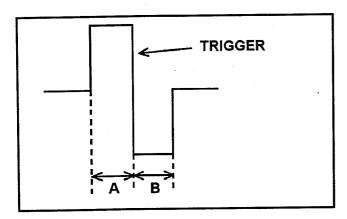


3. VIDEO / RF

3-1. AUDIO VCO Adjustment

BOARD	MAIN
TEST	TP8
ADJUST	PC-EVR: AUDIO_VCO=
MODE	EE
TAPE	
M.EQ	Oscilloscope
SPEC.	A = B ±5%

Select PC-EVR " VIDEO ADJUSTMENT 2 " ⇒ " 1. AUDIO_VCO ".

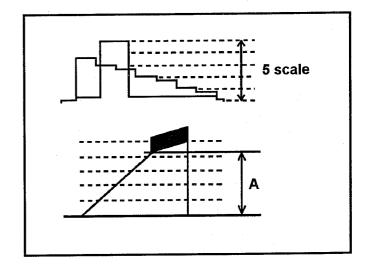


3-2. ZEBRA Adjustment

BOARD	MAIN
TEST	TP12
ADJUST	PC-EVR
MODE	PALY & EE
TAPE	VFM3680KL (Color Bar)
M.EQ	Oscilloscope
SPEC.	4.25±0.15 CRT scale

Select PC-EVR " VIDEO ADJUSTMENT 2 " ⇒ " 2. ZEBRA_ADJUSTMENT ".

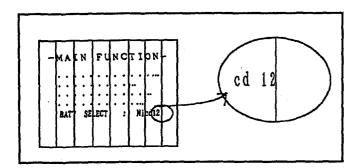
- Playback the alignment tape and set TP12 (Y level) to 5 scales of the oscilloscope by CAL.
- 2. Select "OUTPUT=RAMP" command and press Enter, the unit will change Ramp signal mode.
- 3. Adjust PC-EVR (ZEBRA=) so that A level becomes 4.25 scale level of the oscilloscope.
- 4. After completed this adjustmet, make sure select "OUTPUT=CAM" to back camera signal mode.



3-3. Character Position Adjustment

BOARD	MAIN
TEST	VIEW FINDER CRT
ADJUST	VC1
MODE	EE
TAPE	
M.EQ	
SPEC.	See below

- 1. Set the CAM/BAR switch to BAR side.
- 2. Adjust VC1 (VC6001) so that right edge of character comes as below position.



<RF Adjustment Preparation>

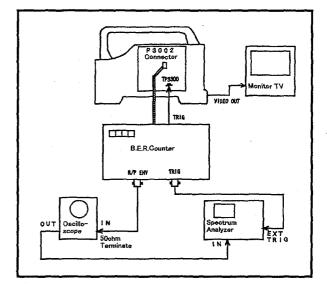
Spectrum Analyzer setting

START FREQ.: 0Hz
STOP FREQ.: 25Hz
RES BW: 300KHz
VIDEO BW: 1KHz
SWEEP TIME: 75ms

dB/div : 2dB

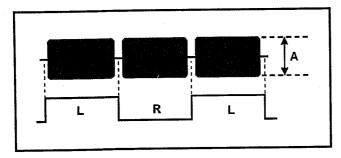
REF LEVEL : -42dB (Oscilloscope: 20mV)

TRIG : EXT (TP3300)



3-4. R/P Envelope Confirmation

BOARD	VTR MAIN
TEST	R/P Envelope, TP3300
ADJUST	
MODE	PLAY
TAPE	VFK3680KL (Color bar)
M.EQ	Oscilloscope
SPEC.	A≧70mVp-p



3-5. PB Equalizer Adjustment

BOARD	VTR MAIN
TEST	B.E.R. Counter
ADJUST	PC-EVR: as following commands
MODE	PLAY
TAPE	VFK3680KL
M.EQ	B.E.R. Counter
SPEC.	Less than 250 at Counter display

Select PC-EVR " VIDEO ADJUSTMENT 2 " ⇒ "3. PLAYBACK_E.Q._ADJUSTMENT ".

- Select "Setting "line and press Enter, automatically set INNERECC and OUTERECC to OFF mode.
- Playbcak alignment tape and adjust PC-EVR (PLL_SL= → PLL_POS= → AUTO_EQ= → EQ_a_L= → EQ_b_L= then repeat PLL_SL=) so that L-ch error rate becomes minimum.
- 3. Set CH SW of B.E.R. Counter to R side and adjust PC-EVR (EQ_a_R= → EQ_b_R=) so that R-ch error rate becomes minimum.

3-6. REC Current Adjustment

BOARD	VTR MAIN
TEST	TP3202 (L-ch), TP3203 (R-ch)
ADJUST	PC-EVR: REC_cur_L=, REC_cur_R=
MODE	REC / PB
TAPE	Recording Tape
M.EQ	Spectrum Analyzer
SPEC.	See Below

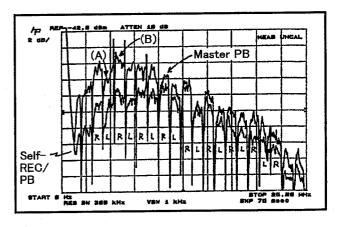
Select PC-EVR " VIDEO ADJUSTMENT 2 " ⇒ "10. REC_CUR_ADJUSTMENT ".

B.E.R. Counter setting

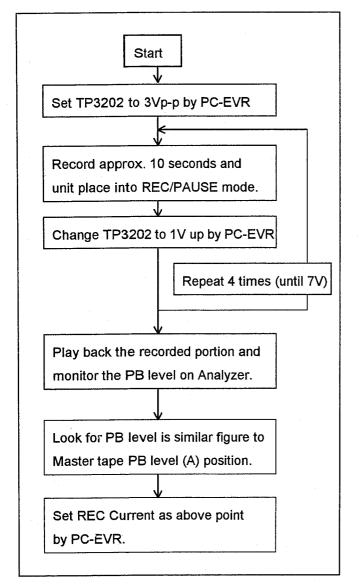
Error Count : OFF HSW SW : R

<< Preparation >>

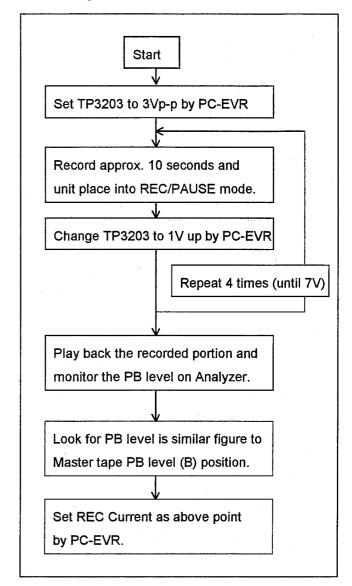
- Playback the color bar portion of alignment tape and store average of 50 sampling in TRACE B on the Spectrum Analyzer.
- 2. Insert blank tape and record internal color bar signal.
- Set REC current level for both channel to 3Vp-p by PC-EVR (L-ch: REC_CUR_L=, R-ch: REC_CUR_R).
- Play back just recorded portion and confirm (A) and (B) point should be lower than master play back level.

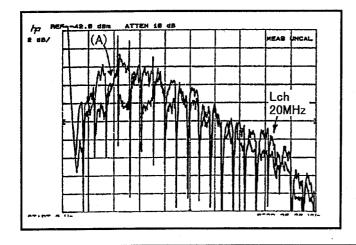


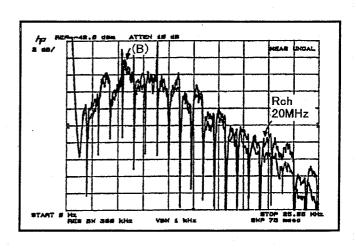
<< L-ch Adjustment >>



<< R-ch Adjustment >>







After completed RF adjustment should be set ECC mode to OFF.

Select PC-EVR " VIDEO ADJUSTMENT 2 " ⇒ "12. SETTING ", it is set INNERECC and OUTECC to OFF

4. AUDIO

4-1. PB LEVEL Adjustment

BOARD	VTR MAIN
TEST	AUDIO OUT
ADJUST	VR4101 (CH1), VR4201 (CH2)
MODE	PLAY
TAPE	VFM3680KL
M.EQ	V.T.V.M
SPEC.	-6dBu±0.2dBu

 Adjust VR4101 for CH1 and VR4201 for CH2 so that play back level becomes within specification.

4-2. CUE REC LEVEL Adjustment

BOARD	VTR MAIN
TEST	TP4001
ADJUST	VR4003
MODE	STOP
TAPE	
M.EQ	V.T.V.M
SPEC.	-10dBu±0.2dBu

<< Preparation >>

- Select MIC SELECT SW on the side panel to "REAR" position for both channel.
- Set REAR MIC LEVEL in menu screen to "-40dB" position.
- Set CUE REC SELECT in menu screen to "CH1" position.
- Adjust audio signal generator level becomes -6dBu at audio output.
- Connect PC-EVR and set Dolby OFF mode as following steps.
 - 1. Use F6 Direct Command function
 - 2. Type "DOLBY=OFF" then press Enter.
- Adjust VR4003 so that audio out put level becomes within specification.

After completed this adjustment should be perform next item "4-3. CUE REC CURRENT ADJ.". Then make sure Dolby set to ON mode by PC-EVR.

4-3. CUE REC Current Adjustment

BOARD	REAR JACK
TEST	TP1002
ADJUST	VR1002
MODE	PLAY
TAPE	VFM3680KL
M.EQ	V.T.V.M
SPEC.	0±3dBu

Please set as same as "3-2. CUE REC Level Adj." condition.

- Play back the alignment tape and measure level at TP1002 (take memo).
- Make self record and play back, and adjust VR1002 so that play back level becomes within specification for previous step 1 level.

After completed this adjustment make sure Dolby set to ON mode by PC-EVR.

5. CAMERA

All camera adjustment items using the PC-EVR. Lighting set up: 3200K, 2000Lux

5-1. V SUB Adjustment

Select "1. VSUB_CUR_ADJUSTMENT".

SETTING	IRIS: AUTO
	GAIN: 0 dB
	AWB: MEM
	OUTPUT: CAM
	SHUTTER: OFF
CHART	Gray Scale
M.EQ	

Press **F5** (**Mode**) key and set mode to [All Steps] and press Enter key, then automatically set the fixed data into EEPROM.

- ✓ Make sure selected top line on adjustment item on screen.
- * After completed this adjustment, press F1 (File) and select HD Read.

5-2. GAIN 0dB Adjustment

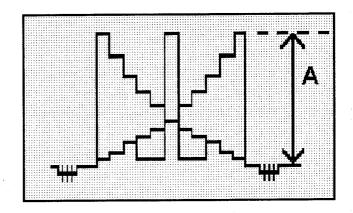
Select "2. CAMERA_GAIN_ADJUSTMENT" for all Gain adjustments (item No. 5-2 to 5-6).

SETTING	IRIS: MANUAL
	GAIN: 0 dB
	AWB: MEM
	OUTPUT: CAM
	SHUTTER: OFF
TEST	P6603 Pin 4 : AGC out (R)
	P6603 Pin 1 : GND
LIGHT	3200K Halogen
CHART	Gray Scale
M.EQ	Oscilloscope, Vector Scope

Press **F5** (Mode) key and set mode to [1 Step] and press Enter key.

✓ Make sure selected top line of adjustment menu. [1. CAMERA_GAIN(0dB)]

- 1. Perform Line No.1 "ADin_R=160" to Line No.7 "AGCmin_R=0".
- Adjust IRIS on the Lens so that Level (A) of P6603
 pin 4 (AGC R) becomes 250mV.
- Select "AGCmin_G=" and adjust the dot is at center of the vector scope by ↑ ↓ key.
- Select "AGCmin_B=" land adjust the dot is at center of the vector scope by ↑ ↓ key.
- Repeat above 3 and 4, then press ESC key to next step.



5-3. GAIN 18dB Adjustment

SETTING	IRIS: MANUAL
	GAIN: 0 dB
	AWB: MEM
	OUTPUT: CAM
	SHUTTER: OFF
LIGHT	3200K Halogen
CHART	Gray Scale
M.EQ	Vector Scope

Press **F5** (Mode) key and set mode to [1 Step] and press Enter key.

- ✓ Make sure selected line of adjustment menu. [10. CAMERA_GAIN(18dB)]
- Select "AGCmax_18G=" and adjust the dot is at center of the vector scope by ↑ ↓ key.
- Select "AGCmax_18B=" and adjust the dot is at center of the vector scope by ↑ ↓ key.
- Repeat above 1 and 2, then press ESC key to next step.

5-4. GAIN 12dB Adjustment

SETTING	IRIS: MANUAL
	GAIN: 0 dB
	AWB: MEM
	OUTPUT: CAM
	SHUTTER: OFF
LIGHT	3200K Halogen
CHART	Gray Scale
M.EQ	Vector Scope

Press **F5** (**Mode**) key and set mode to **[1 Step]** and press Enter key.

- ✓ Make sure selected line of adjustment menu. [14. CAMERA_GAIN(12dB)]
- Select "AGCmax_12G=" and adjust the dot is at center of the vector scope by ↑ ↓ key.
- Select "AGCmax_12B=" and adjust the dot is at center of the vector scope by ↑ ↓ key.
- 3. Repeat above 1 and 2, then press ESC key to next step.

5-5. GAIN 9dB Adjustment

SETTING	IRIS: MANUAL
	GAIN: 0 dB
	AWB: MEM
	OUTPUT: CAM
	SHUTTER: OFF
LIGHT	3200K Halogen
CHART	Gray Scale
M.EQ	Vector Scope

Press **F5** (**Mode**) key and set mode to **[1 Step]** and press Enter key.

- ✓ Make sure selected line of adjustment menu. [17. CAMERA_GAIN(9dB)]
- Select "AGCmax_9G=" and adjust the dot is at center of the vector scope by ↑ ↓ key.
- Select "AGCmax_9B=" and adjust the dot is at center of the vector scope by ↑ ↓ key.
- Repeat above 1 and 2, then press ESC key to next step

5-6. GAIN 6dB Adjustment

SETTING	IRIS: MANUAL
	GAIN: 0 dB
	AWB: MEM
	OUTPUT: CAM
	SHUTTER: OFF
LIGHT	3200K Halogen
CHART	Gray Scale
M.EQ	Vector Scope

- ✓ Make sure selected line of adjustment menu. [20. CAMERA_GAIN(6dB)]
- Select "AGCmax_6G=" and adjust the dot is at center of the vector scope by ↑ ↓ key.
- Select "AGCmax_6B=" and adjust the dot is at center of the vector scope by ↑ ↓ key.
- Repeat above 1 and 2, and perform Line No.23
 "SYNC" then press ESC key and select STOP to
 EXIT.

5-7. WB PRE-SET Adjustment (Indoor) Select "3. WB_PRE-SET_ADJUSTMENT" for all Gain adjustments (item No. 5-7 to 5-8).

SETTING	IRIS: MANUAL
,	GAIN: 0 dB
	AWB: MEM
	OUTPUT: CAM
	SHUTTER: OFF
LIGHT	3200K Halogen
CHART	Gray Scale
M.EQ	Vector Scope

Press **F5** (Mode) key and set mode to [1 Step] and press Enter key.

- ✓ Make sure selected line of adjustment menu. [1. WB_PRE-SET_ADJUSTMENT(INDOOR)]
- Perform Line No. 1 to 3 "AWB_R=0X50, AWB_B=0X70" and confirm the dot is at center of the vector scope.
- Select "AWB=indoorset" and adjustment performed automatically.

5-8. WB PRE-SET Adjustment (Outdoor)

SETTING	IRIS: MANUAL
	GAIN: 0 dB
	AWB: MEM
	OUTPUT: CAM
	SHUTTER: OFF
LIGHT	3200K Halogen + LB120 Filter
CHART	Gray Scale
M.EQ	Vector Scope

- ✓ Make sure selected line of adjustment menu. [5. WB_PRE-SET_ADJUSTMENT(OUTDOOR)]
- Put the CC filter (VFK1347 : LB120) on front of the Lens.
- Select "AWB=setting" and automatically adjust white balance and confirm the dot is at center of the vector scope.
- Select "AWB=outdoorset" and adjustment performed automatically.

5-9. ATW WB Adjustment (3100K)

Select "3. ATW:WB_ADJUSTMENT" for all Gain adjustments (item No. 5-9 to 5-10).

SETTING	IRIS: MANUAL	
	GAIN: 0 dB	
	AWB: MEM	
	OUTPUT: CAM	200
	SHUTTER: OFF	
LIGHT	3200K Halogen	
CHART	Gray Scale	
M.EQ	Vector Scope	

Press **F5** (Mode) key and set mode to [1 Step] and press Enter key.

- ✓ Make sure selected line of adjustment menu. [1. ATW:WB_ADJUSTMENT(3100K)]
- 1. Make sure no filter on the Lens.
- Select "AWB_R=0X50, AWB_B=0X70" line and confirm the dot is at center of the vector scope.
- Select "AWB=3100set" and adjustment performed automatically.

5-10. ATW WB Adjustment (5100K)

SETTING	IRIS: MANUAL
	GAIN: 0 dB
	AWB: MEM
	OUTPUT: CAM
	SHUTTER: OFF
LIGHT	3200K Halogen + LB120 Filter
CHART	Gray Scale
M.EQ	Vector Scope

Press **F5** (Mode) key and set mode to [1 Step] and press Enter key.

✓ Make sure selected line of adjustment menu. [4. ATW:WB_ADJUSTMENT(5100K)]

- Put the CC filter (VFK1347 : LB120) on front of the Lens.
- Select "AWB=setting" and automatically adjust white balance and confirm the dot is at center of the vector scope.
- Select "AWB=5100set" and adjustment performed automatically.

5-11. ATW WHITE BALANCE DATA Confirmation

Select "5. ATW:WB_DATA_ADJUSTMENT" for all Gain adjustments (item No. 5-11 to 5-13).

SETTING	IRIS: MANUAL
	GAIN: 0 dB
	AWB: MEM
	OUTPUT: CAM
	SHUTTER: OFF
LIGHT	Not Required
CHART	
M.EQ	

Press **F5** (Mode) key and set mode to [1 Step] and press Enter key.

✓ Make sure selected line of adjustment menu. [1. ATW_WB_DATA_CHECK]

Select "ATWADJ=Gaincheck" and perform it, then confirm "OK" display appear on the Screen. If appear "NG", re-adjust Item 5-9 and 5-10 again.

5-12. ATW WB Data Setting (3100K)

SETTING	IRIS: MANUAL
	GAIN: 0 dB
'	AWB: MEM
	OUTPUT: CAM
	SHUTTER: OFF
LIGHT	3200K Halogen
CHART	Gray Scale
M.EQ	

Press **F5** (Mode) key and set mode to [1 Step] and press Enter key.

- ✓ Make sure selected line of adjustment menu. [2. ATW_WB_DATA_SETTING(3100K)]
- 1. Make sure no filter on front of the Lens.
- Select "ATWADJ=3100ATW" and adjustment performed automatically.

5-13. ATW WB Data Setting (5100K)

SETTING	IRIS: MANUAL
	GAIN: 0 dB
	AWB: MEM
	OUTPUT: CAM
	SHUTTER: OFF
LIGHT	3200K Halogen + LB120 Filter
CHART	Gray Scale
M.EQ	

Press **F5** (**Mode**) key and set mode to [1 Step] and press Enter key.

- ✓ Make sure selected line of adjustment menu. [3. ATW_WB_DATA_SETTING(5100K)]
- Put the CC filter (VFK1347 : LB120) on front of the Lens.
- Select "ATWADJ=5100ATW" and adjustment performed automatically.

5-14. ATW Tracking Data Setting

Select "6. ATW:SENSOR_ADJUSTMENT" for adjustments item No. 5-14 to 5-22.

SETTING	IRIS: MANUAL
	GAIN: 0 dB
	AWB: MEM
	OUTPUT: CAM
	SHUTTER: OFF
LIGHT	Not Required
CHART	
M.EQ	

Press **F5** (Mode) key and set mode to [1 Step] and press Enter key.

- ✓ Make sure selected line of adjustment menu. [1.
 ATW_TRACKING_SETTING]
- 1. Select "ATWADJ=Tracking" and adjustment performed automatically.

After this adjustment, the Power OFF/ON of the unit.

5-15. ATW SENSOR OFFSET Adjustment

SETTING	IRIS: MANUAL
	GAIN: 0 dB
	AWB: MEM
	OUTPUT: CAM
	SHUTTER: OFF
LIGHT	3200K Halogen
CHART	Gray Scale
M.EQ	

- ✓ Make sure selected line of adjustment menu. [2.
 ATW:SENSOR_OFFSET_SETTING]
- 1. Make sure no filter on front of the Lens.
- Select "ATWADJ=Sensor_OFFset" and adjustment performed automatically.

5-16. ATW SENSOR NORMALIZE Data Adjustment

SETTING	IRIS: MANUAL
	GAIN: 0 dB
	AWB: MEM
	OUTPUT: CAM
	SHUTTER: OFF
LIGHT	3200K Halogen + LB120 Filter
CHART	Gray Scale
M.EQ	

Press **F5** (Mode) key and set mode to [1 Step] and press Enter key.

- ✓ Make sure selected line of adjustment menu. [3. ATW:SENSOR_DATA_NORMALAIZE]
- Put the CC filter (VFK1347 : LB120) on front of the ATW Sensor.
- Select "ATWADJ=Sensor_Normalize" and adjustment performed automatically.

After this adjustment, the Power OFF/ON of the unit.

5-17. ATW SENSOR DATA Confirmation

SETTING	IRIS: MANUAL
	GAIN: 0 dB
	AWB: MEM
	OUTPUT: CAM
	SHUTTER: OFF
LIGHT	3200K Halogen + LB120 Filter
CHART	Gray Scale
M.EQ	3.7

Press **F5** (**Mode**) key and set mode to **[1 Step]** and press Enter key.

✓ Make sure selected line of adjustment menu. [4. ATW:SENSOR_CHECK]

- Put the CC filter (VFK1347 : LB120) on front of the ATW Sensor.
- Select "ATWADJ=SensorCheck" and perform it, then confirm "OK" display appear on the Screen. If appear "NG", re-adjust Item 5-12 to 5-16 again.

5-18. Warm White Balance Adjustment

SETTING	IRIS: MANUAL
	GAIN: 0 dB
Ì	AWB: MEM
	OUTPUT: CAM
	SHUTTER: OFF
LIGHT	3200K Halogen + LA40 Filter
CHART	Gray Scale
M.EQ	

- ✓ Make sure selected line of adjustment menu. [5. ATW:WARM_WHITE_BALANCE_SETTING]
- Put the CC filter (VFK: LA40) on front of the Lens.
- Select "AWB=setting" and automatically adjust white balance and confirm the dot is at center of the vector scope.
- Select "AWB=WWset" and adjustment performed automatically.

5-19. Cool White Balance Adjustment

SETTING	IRIS: MANUAL
	GAIN: 0 dB
	AWB: MEM
	OUTPUT: CAM
	SHUTTER: OFF
LIGHT	3200K Halogen + LB40 Filter
CHART	Gray Scale
M.EQ	

Press **F5** (Mode) key and set mode to [1 Step] and press Enter key.

- ✓ Make sure selected line of adjustment menu. [7.
 ATW:COOL_WHITE_BALANCE_SETTING]
- 1. Put the CC filter (VFK1341 : LB40) on front of the Lens.
- Select "AWB=setting" and automatically adjust white balance and confirm the dot is at center of the vector scope.
- Select "AWB=CWset" and adjustment performed automatically.

5-20. Warm White Balance Data Setting

SETTING	IRIS: MANUAL
	GAIN: 0 dB
	AWB: MEM
	OUTPUT: CAM
	SHUTTER: OFF
LIGHT	3200K Halogen + LA40 Filter
CHART	Gray Scale
M.EQ	

Press F5 (Mode) key and set mode to [1 Step] and press Enter key.

- ✓ Make sure selected line of adjustment menu. [9. ATW:WARM WHITE_BALANCE_DATA]
- 1. Put the CC filter (VFK: LA40) on front of the Lens.
- Select "AWBADJ=WWATW" and adjustment performed automatically.

5-21. Cool White Balance Data Setting

SETTING	IRIS: MANUAL
	GAIN: 0 Db
	AWB: MEM
	OUTPUT: CAM
	SHUTTER: OFF
LIGHT	3200K Halogen + LB40 Filter
CHART	Gray Scale
M.EQ	

Press **F5** (**Mode**) key and set mode to **[1 Step]** and press Enter key.

- ✓ Make sure selected line of adjustment menu. [10.
 ATW:COOL_WHITE_BALANCE_DATA]
- Put the CC filter (VFK1341 : LB40) on front of the Lens.
- Select "AWBADJ=CWATW" and adjustment performed automatically.

5-22. Normal White Balance Data Setting

SETTING	IRIS: MANUAL
	GAIN: 0 dB
	AWB: MEM
	OUTPUT: CAM
	SHUTTER: OFF
LIGHT	Not Required
CHART	
M.EQ	

- ✓ Make sure selected line of adjustment menu. [11. ATW:NORMAL_WHITE_BALANCE_DATA]
- Select "AWB=NWset" and adjustment performed automatically.

CCD Replacement Procedures

Perform the following steps for the CCD replacement and adjustment.

- Remove the both side panels.
- Disconnect P6601, P6602 and P6605, unscrew 3 screws (A) on the TEST Connection C.B.A. (Fig. CCD1)
- Disconnect P7 on the component side of the VTR MAIN C.B.A. and open this board then disconnect P1 on back side of this C.B.A.
- 4. Unscrews (B) on Front panel and carefully pull the Front panel unit with camera block out to front direction. (Fig. CCD2)
- Unscrews 3 screws (C) on the shield case of CCD unit and remove the shield case. (Fig. CCD3)
- Disconnect PP101 on the Sensor C.B.A. (Fig. CCD4)
- Unscrew 3 screws (E) on CCD mount base and carefully remove CCD Prism unit from front panel. (Fig. CCD5)
- 8. Replace the new CCD Prism unit and follows reverse way to above steps.

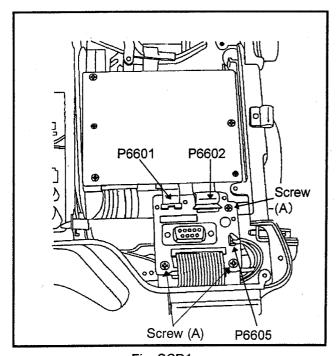


Fig. CCD1

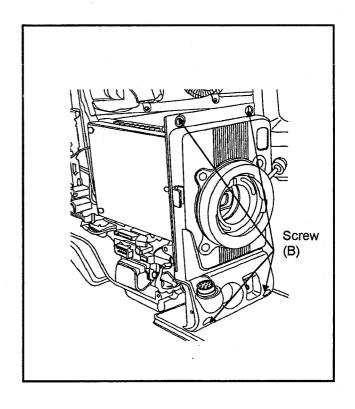


Fig. CCD2

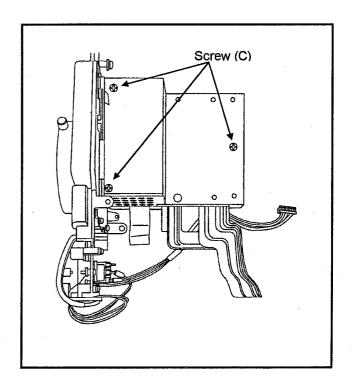


Fig. CCD3

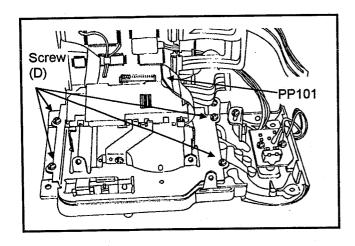


Fig. CCD4

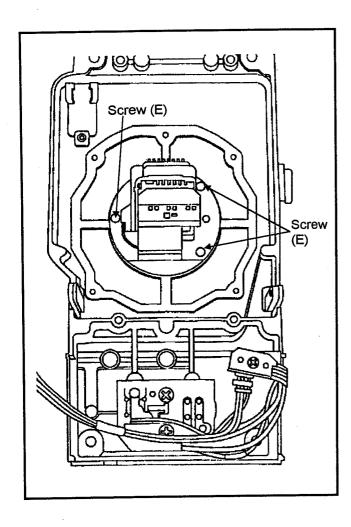
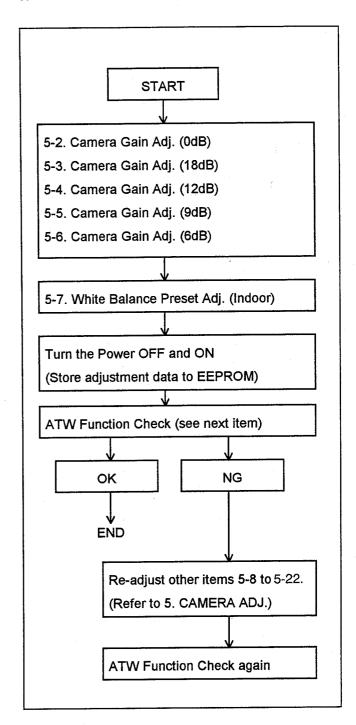


Fig. CCD5

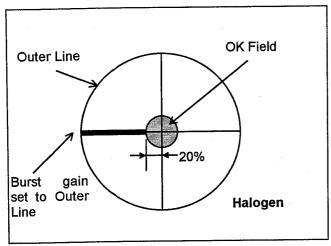
<<Adjustment Flow Chart after install new CCD unit>>



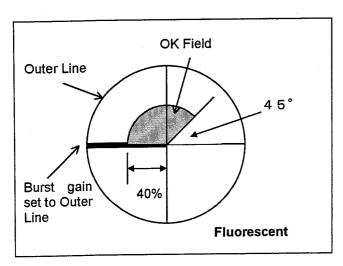
<< ATW Function Check >>

SETTING	IRIS: AUTO
	GAIN: 0 dB
	AWB: ATW
	OUTPUT: CAM
	SHUTTER: OFF
TEST	VIDEO out
CHART	Gray Scale
M.EQ	Vector Scope

- The AWB switch on the side panel set to "ATW" mode.
- Confirm the dot is at OK field of the vector scope as shown in below Figure under the Halogen Lamp condition.



- Turn OFF the Halogen Lamp and lighting condition is Fluorescent Lamp.
- Confirm the dot is at OK field of the vector scope as shown in below Figure.



6. ELECTRICAL VIEWFINDER

6-1. Preparation

- 1. Remove the top case of the EVF.
- 2. Connect the EVF to the main unit.
- Supply an external DC to the external Dc input of the main unit.

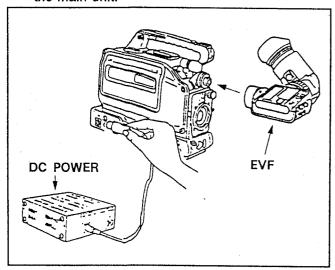


Figure F1.

6-2. Setting of the Controls for Adjustment

Unless otherwise specified, set the controls as shown below.

PEAKING VR : 1
CONTRAST VR : 1
BRIGHT VR : 1

12 O'clock position 12 O'clock position 12 O'clock position

· CHARACTER SW · ZEBRA SW : OFF : OFF

· TALLY SW · IRIS SW

: M (Manual)

CAM

· OUTPUT

(CAM/BAR) SW :

6-3. Power Supply Voltage Adjustment

BOARD	V DEF
TP	TP7001
ADJ.	VR7001
TAPE	WITHOUT TAPE
INPUT	NO INPUT SIGNAL
MODE	STOP
M.EQ	D.V.M.
SPEC.	8.6V ± 0.005V DC

1. Adjust the EVF controls as follows.

· BRIGHT VR

: Minimum (fully CCW)

position

CONTRAST VR

Minimum (fully CCW)

position

2. Connect the D.V.M. to TP7001 and adjust VR7001 so that the voltage is 8.6V ± 0.005V.

6-4. H Free Run Frequency Adjustment

BOARD	V DEF
TP	TP7401
ADJ.	VR7002
TAPE	WITHOUT TAPE
INPUT	NO INPUT SIGNAL
MODE	STOP
M.EQ	FREQUENCY COUNTER
SPEC.	15.75KHz ± 0.1KHz (NTSC) 15.625KHz ± 0.1KHz (PAL)

1. Connect the frequency counter to TP7401 and adjust VR7002 so that the frequency is within the specification.

6-5. V Free Run Frequency Adjustment

BOARD	V DEF
TP	TP7002
ADJ.	VR7006
TAPE	WITHOUT TAPE
INPUT	NO INPUT SIGNAL
MODE	STOP
M.EQ	FREQUENCY COUNTER
SPEC.	50Hz ± 1Hz (NTSC), 42Hz ± 1Hz (PAL)

1. Connect the frequency counter to TP7002 and adjust VR7006 so that the frequency is within the specification.

6-6. Deflection Yoke Tilt Adjustment

BOARD	
TP	CRT
ADJ.	DEFLECTION YOKE
TAPE	MONOSCOPE OF ALIGNMENT TAPE
INPUT	FROM VTR SECTION
MODE	PLAY
M.EQ	
SPEC.	PICTURE IS STRAIGHT ON THE SCREEN

- 1. Disassemble the CRT unit.
 - Remove the top case.
 (refer to page 2-8 of the service manual volume 1)
 - 2) Open the H DEF C.B.A. (refer to page 2-8 of the service manual volume 1)
 - 3) Remove the eye piece unit.
 - 4) Disconnect the connectors P7004 on the Front C.B.A., P7014 on the V DEF C.B.A., P7009 on the CN C.B.A. and P7013, P7011 on the H DEF C.B.A. so that the CRT unit can be lifted.
 - Shift the outer lock ring, lock ring spacer and inner lock ring to the cable side as shown in Figure F2.

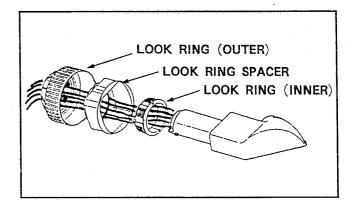


Figure F2
6) Unscrew the screws (A) and (B) as shown in Figure F3.

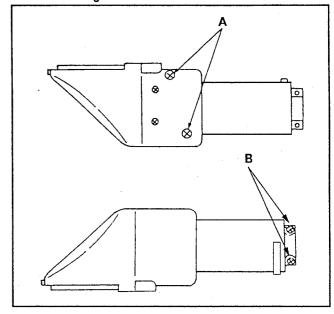


Figure F3.

7) Push the portion A as shown in Figure F4 so that the CRT case can be removed.

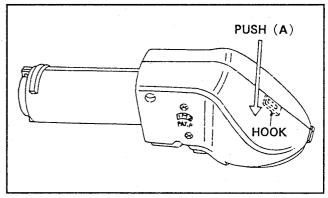


Figure F4

8) Connect the all connectors which have been disconnected in step 4).

- 2. Loosen the clamp band screw holding the deflection yoke as shown in Figure F5.
- 3. Rotate the deflection coil clockwise or counterclockwise so that the picture is straight on the screen as shown in Figure F6.

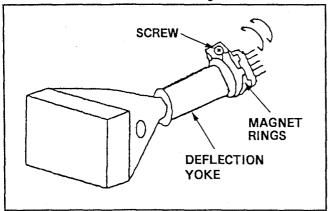


Figure F5.

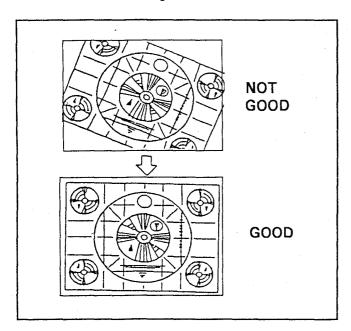


Figure F6.

6-7. Picture Centering Adjustment

BOARD		
TP	CRT	
ADJ.	CENTERING MAGNETS	
TAPE	MONOSCOPE OF ALIGNMENT TAPE	
INPUT	FROM VTR SECTION	
MODE	PLAY	
M,EQ		
SPEC.	PICTURE IS IN THE CENTER ON THE SCREEN	

 Disassemble the CRT unit. (refer to step 1 of 7-4-6. Deflection Yoke Tilt Adj.) 2. Rotate the two centering magnets as shown in Figure F4 to center the picture both vertically horizontally as shown in Figure F8.

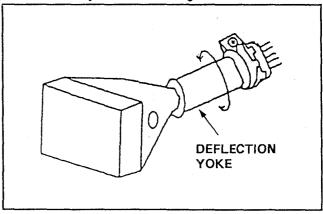


Figure F7.

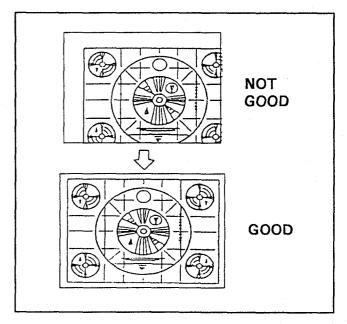


Figure F8.

6-8. Picture Size Adjustment

BOARD	V DEF
TP	SCREEN
ADJ.	VR7004 (V), VR7005 (H)
TAPE	WITHOUT TAPE
INPUT	FROM INTERNAL COLOR BAR
MODE	STOP
M.EQ	
SPEC.	H = 0.5mm, V = 0.5mm

- Set the CAM / BAR switch at the BAR position.
- Adjust VR7004 (vertical) and VR7005 (horizontal) so that the V width and H width of the picture frame are 0.5mm as shown in Figure Fo

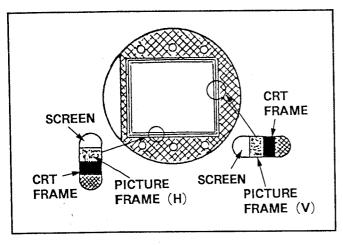


Figure F9.



BOARD	H DEF
TP	
ADJ.	VR7403
TAPE	WITHOUT TAPE
INPUT	FROM CAMERA SECTION
MODE	VTR MODE STOP
M.EQ	OSCILLOSCOPE
SPEC.	RASTER JUST APPEAR

- 1. Connect the scope to the CAMERA OUT.
- 2. Place the unit in the CAM (camera) mode and manual iris mode.
- 3. Aim the camera to a plain white paper and adjust the iris so that the white level is 630mVpp as shown in Figure F10.
- 4. Adjust the viewfinder controls as follow.
 - BRIGHT VR
- 3 O'clock position
- · CONTRAST VR
- Maximum (fully
- clockwise) position
- · PEAK VR
- Minimum (fully counterclockwise) position
- Remove the eyepiece from the viewfinder unit.
- Carefully observe the frame portion of the screen and adjust VR7403 so that the raster is just appeared slightly as shown in Figure F11.

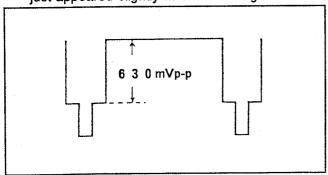


Figure F10.

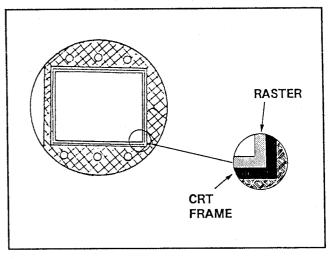


Figure F11.

6-10. Focus Adjustment

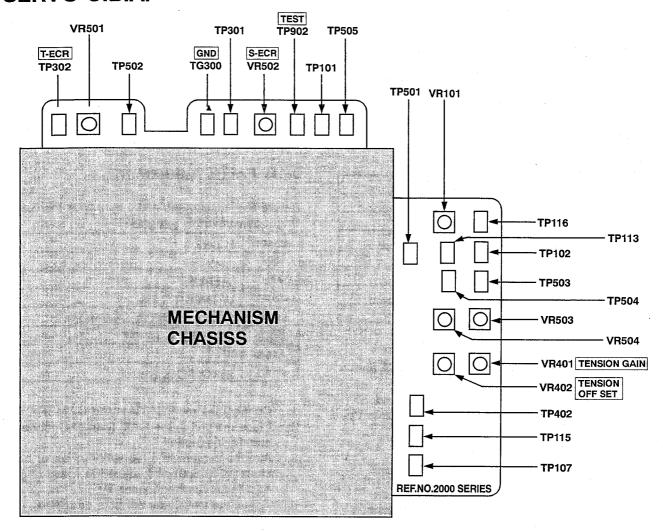
Before this adjustment, make sure that the Sub-Bright adjustment is performed.

BOARD	H DEF
TP	
ADJ.	VR7402
TAPE	WITHOUT TAPE
INPUT	FROM CAMERA SECTION
MODE	VTR MODE STOP
M.EQ	
SPEC.	BEST FOCUS

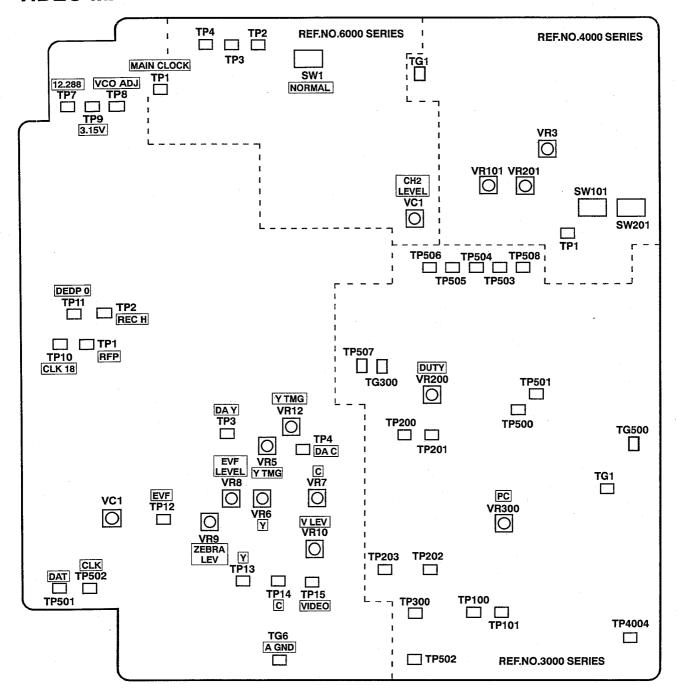
- 1. Connect the monitor TV to the CAMERA OUT.
- 2. Place the unit in the CAM (camera) mode and manual iris mode.
- 3. Aim the camera to a resolution chart or boll chart (VFK0580) and adjust the focus ring to the best focus for the monitor TV.
- 4. Adjust the viewfinder controls as follow.
 - · BRIGHT VR
- 12 O'clock position
- · CONTRAST VR
- 12 O'clock position
- · PEAK VR
- Minimum (fully CCW)
- position.
- 5. Carefully observe the picture on the viewfinder and adjust VR7402 so the picture is best focus.

LOCATION OF TEST POINT & CONTROLS

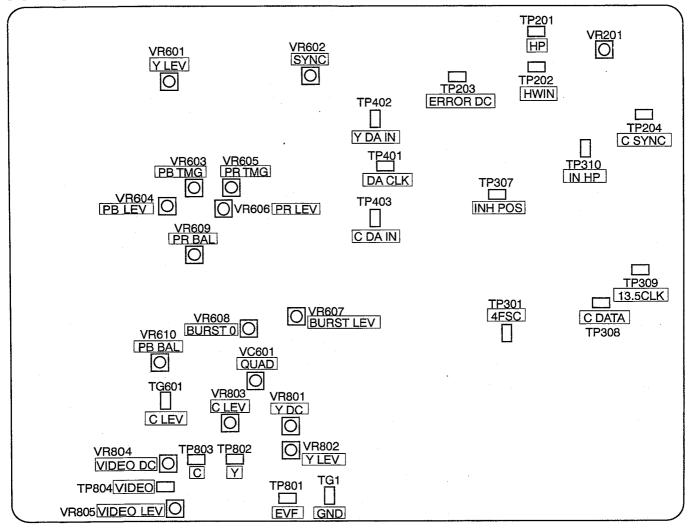
SERVO C.B.A.



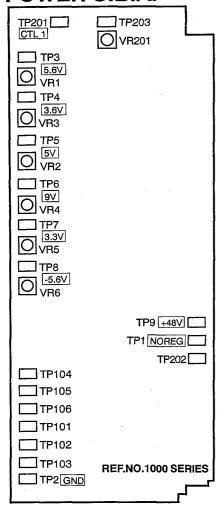
VIDEO MAIN C.B.A.



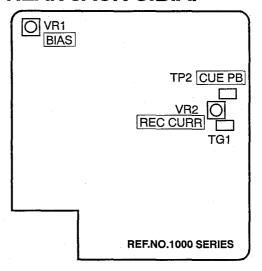
PRE SHUFFLE C.B.A.



POWER C.B.A.



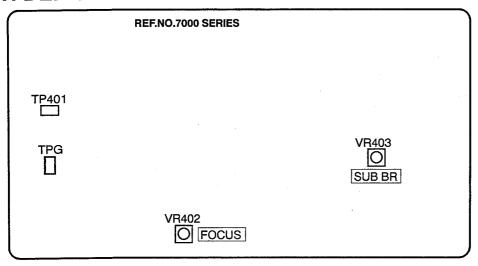
REAR JACK C.B.A.



V DEF C.B.A.

VR1 8.6V		VR1
VR6 V FREE. FREQ.		O PICTURE SIZE H.
VR4 PICTURE SIZE V.		
○ VR3		
VR2 H FREE. FREQ.	☐ TP1	
☐ TPG	DEE NO 7000 OFFICO	
TP2	REF.NO.7000 SERIES	

H DEF C.B.A.

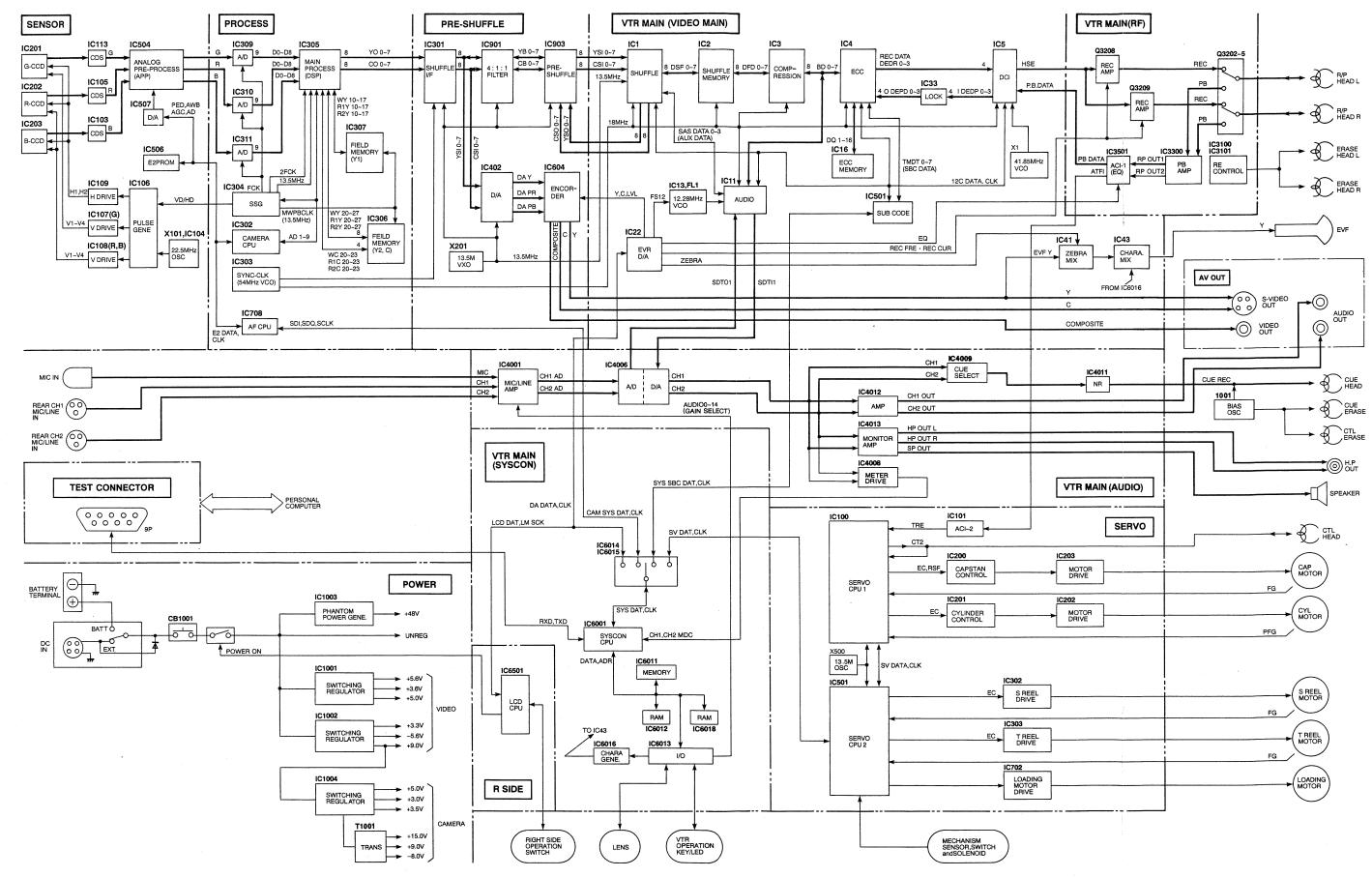


BLOCK DIAGRAMS

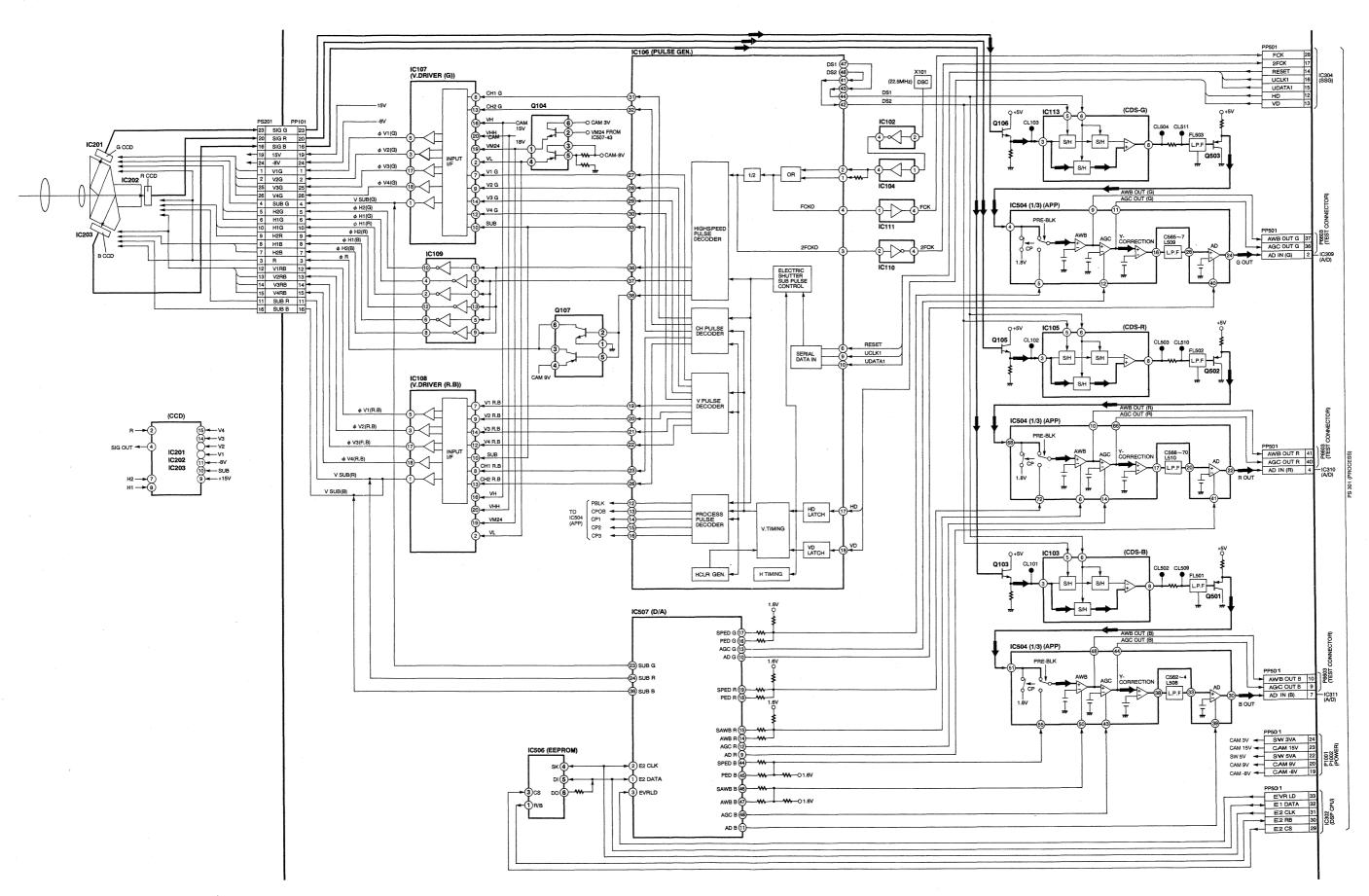
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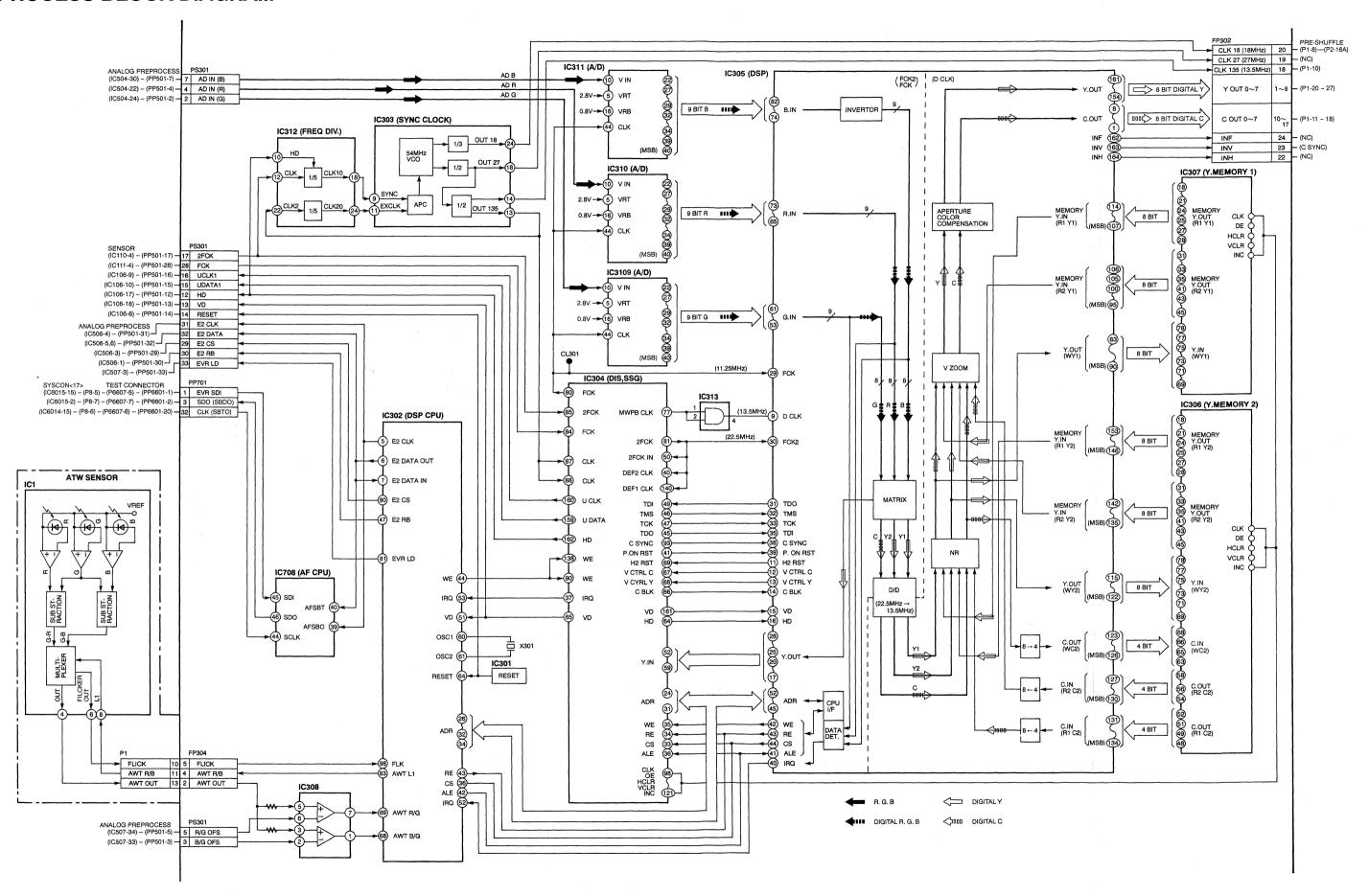
OVERALL BLOCK DIAGRAM



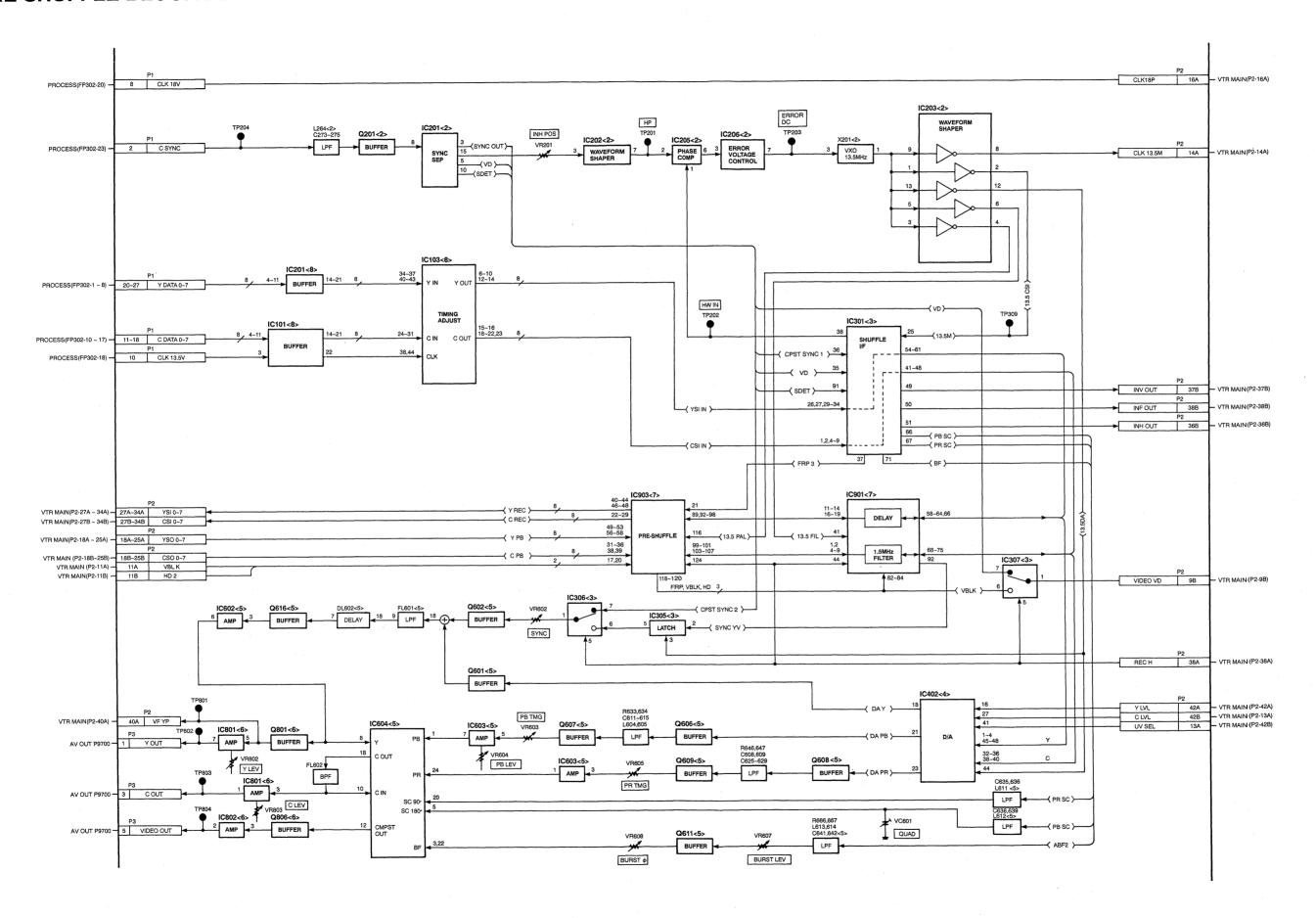
CCD & SENSOR BLOCK DIAGRAM



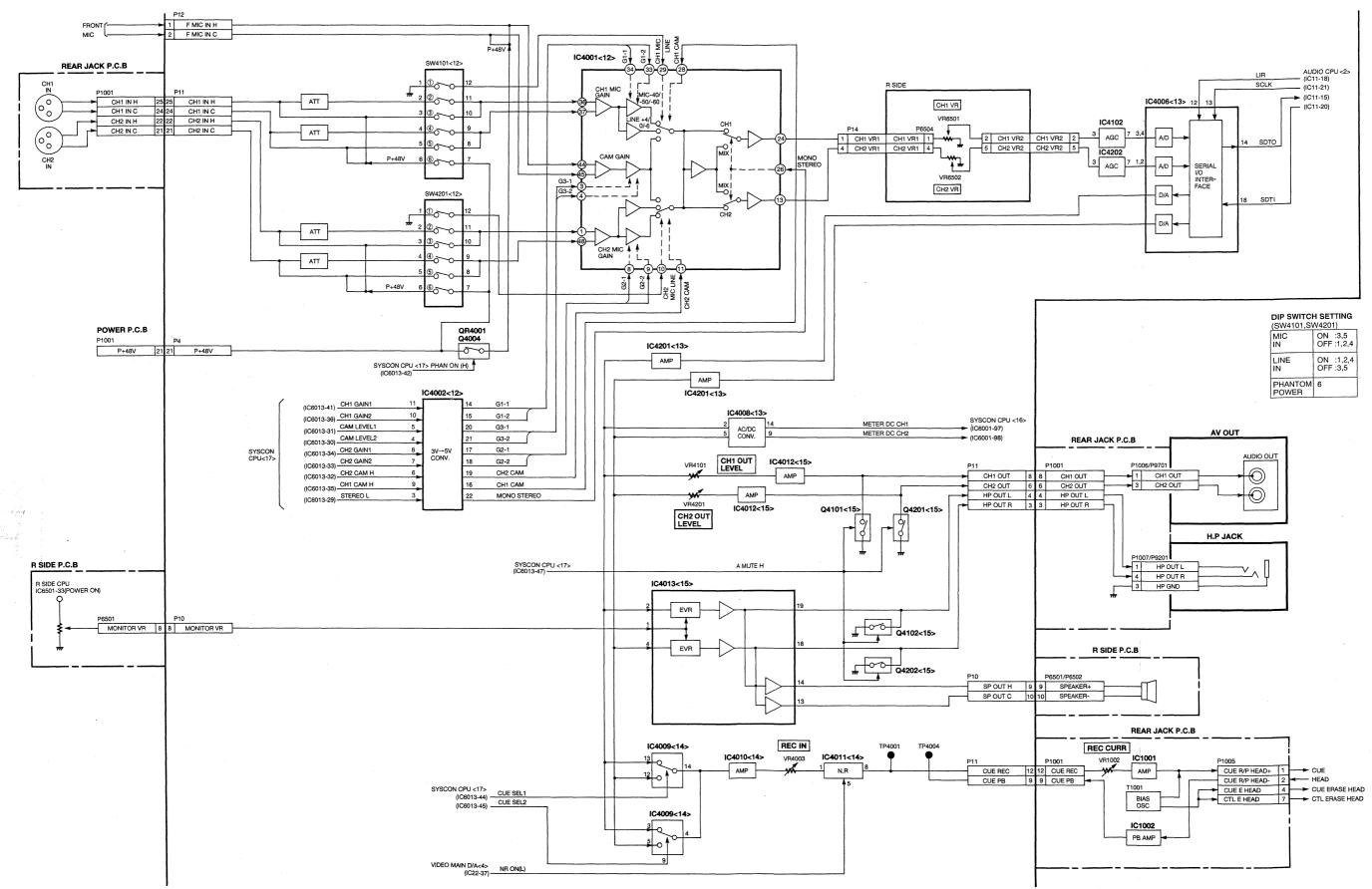
PROCESS BLOCK DIAGRAM



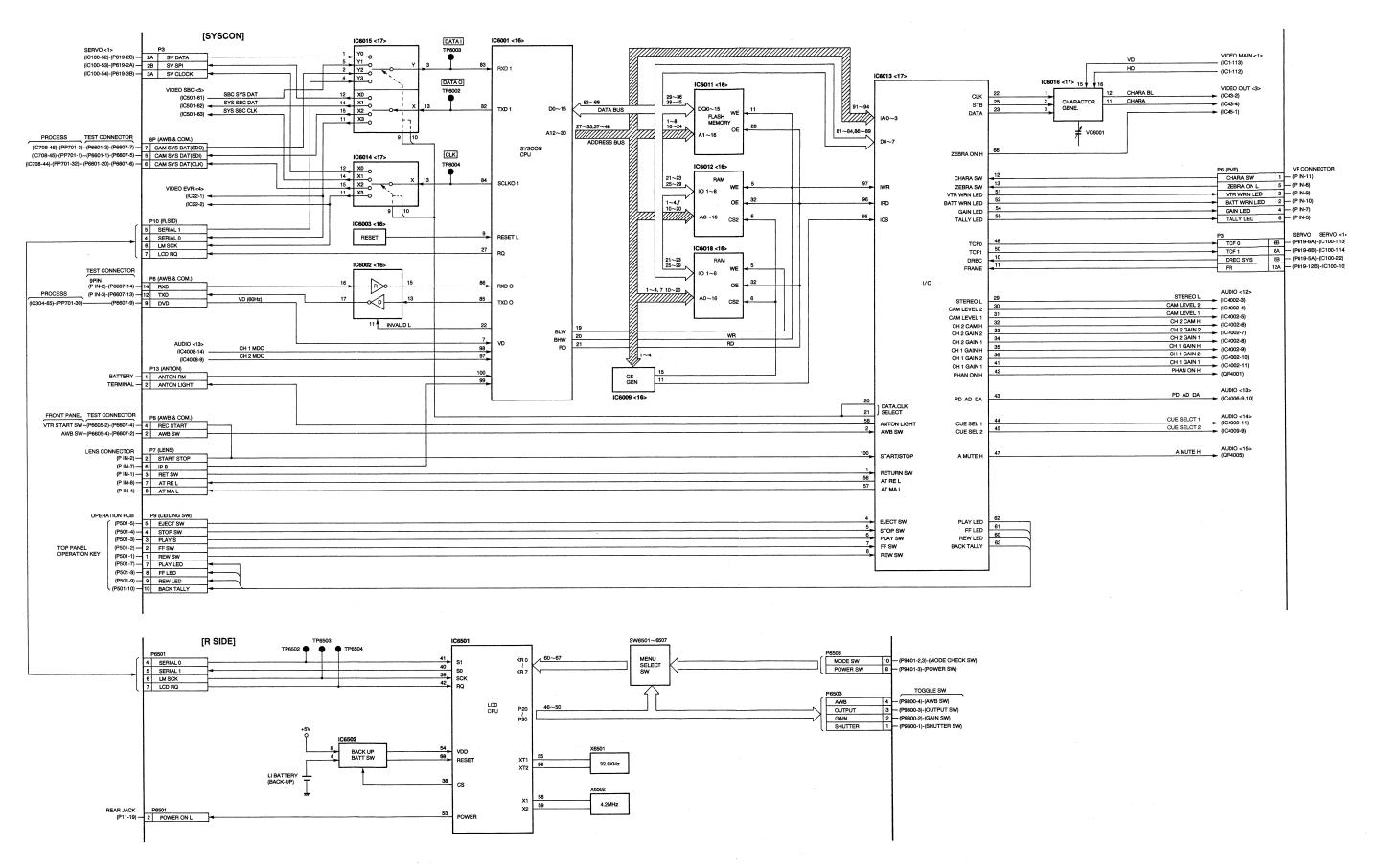
PRE SHUFFLE BLOCK DIAGRAM



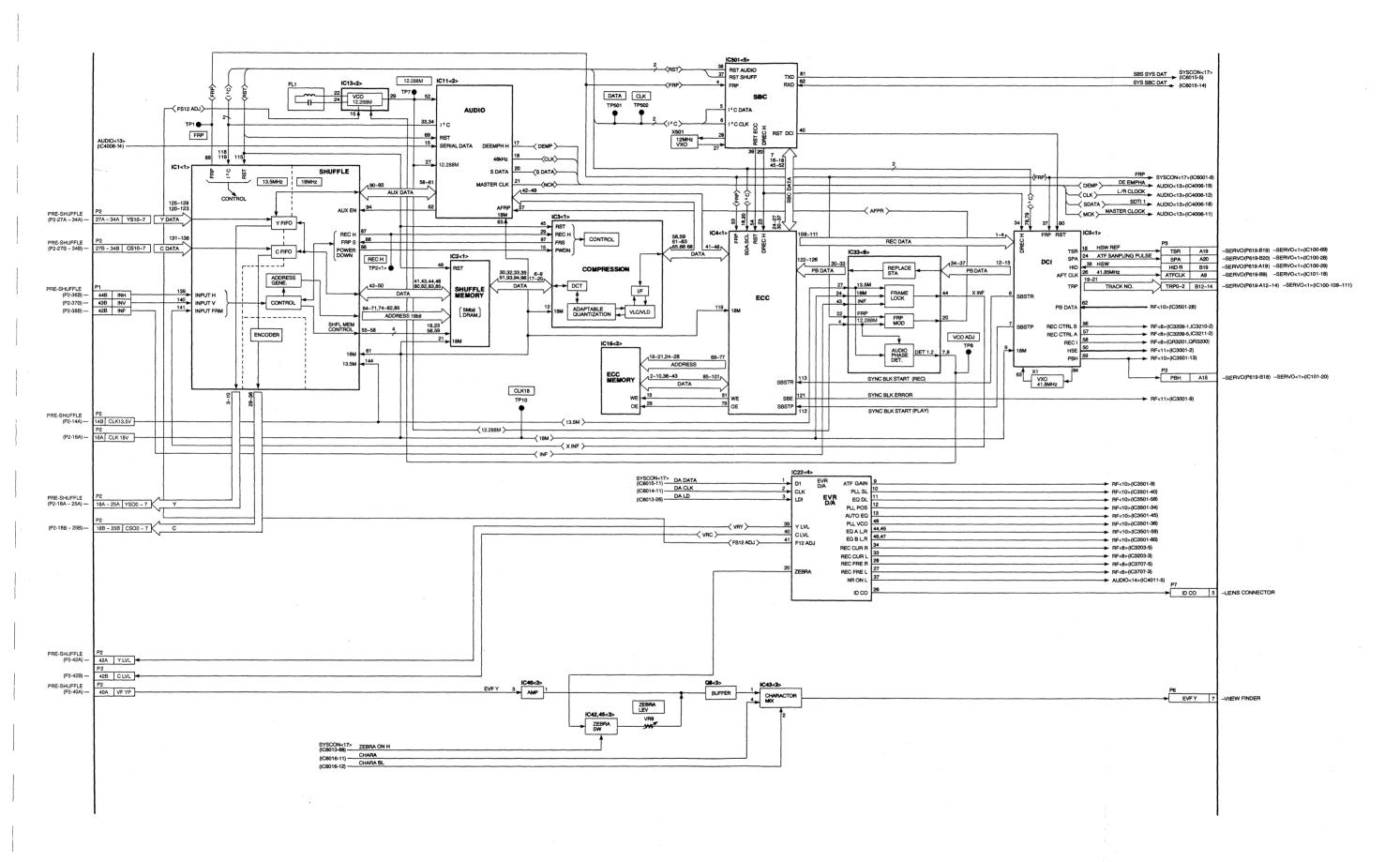
AUDIO & REAR JACK BLOCK DIAGRAM



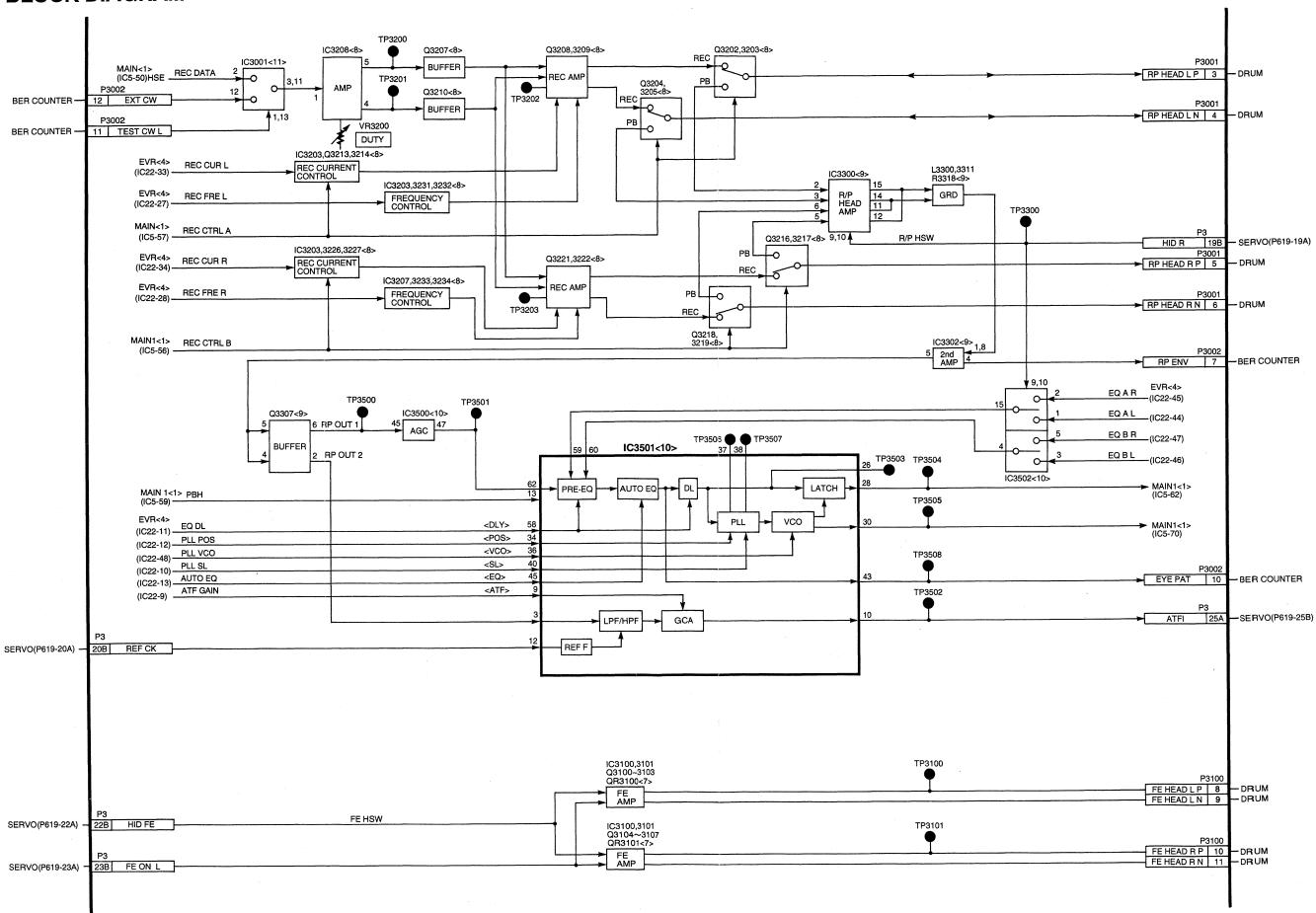
SYSTEM CONTROL & R SIDE BLOCK DIAGRAM



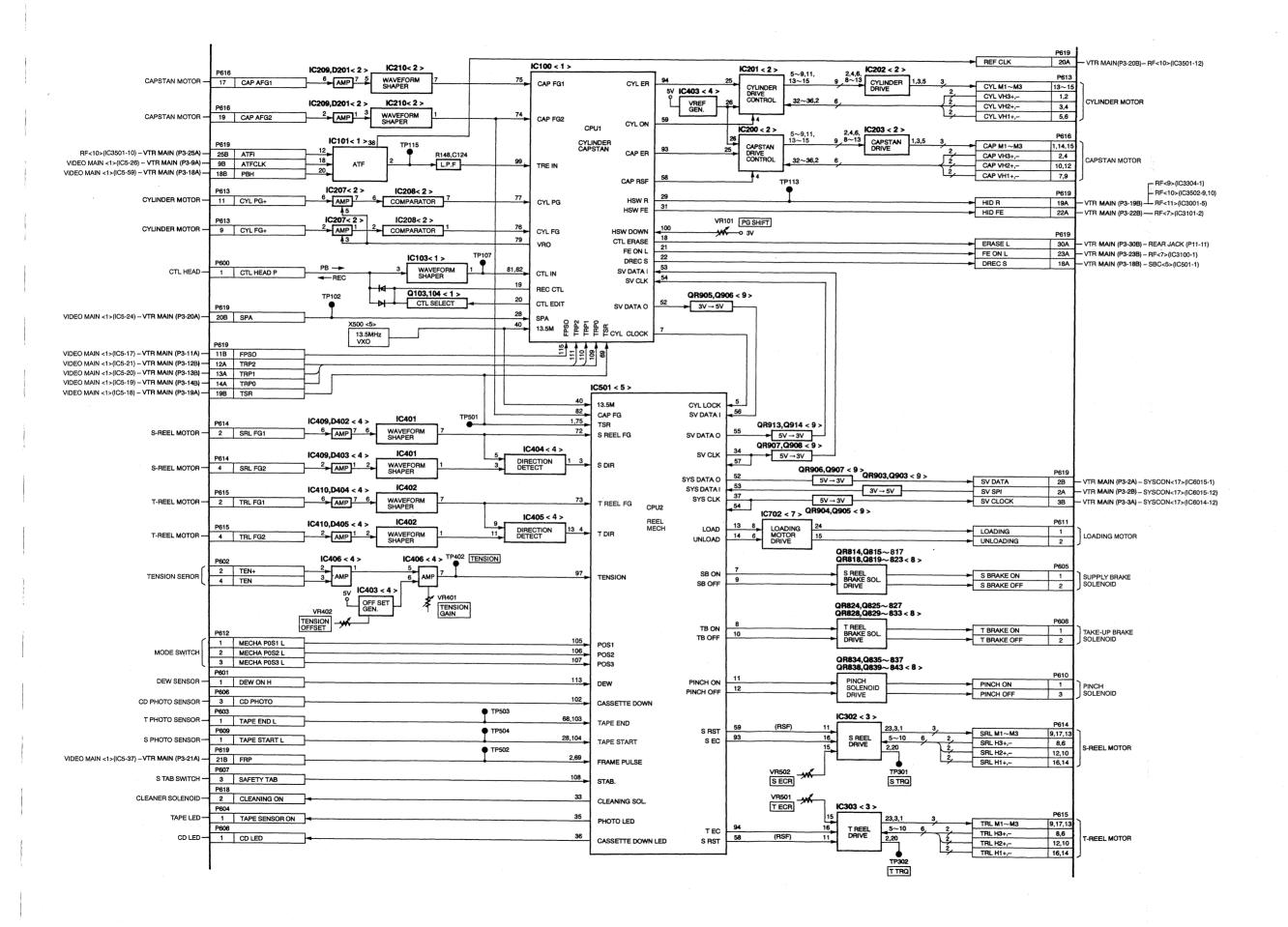
VIDEO MAIN BLOCK DIAGRAM



RF BLOCK DIAGRAM

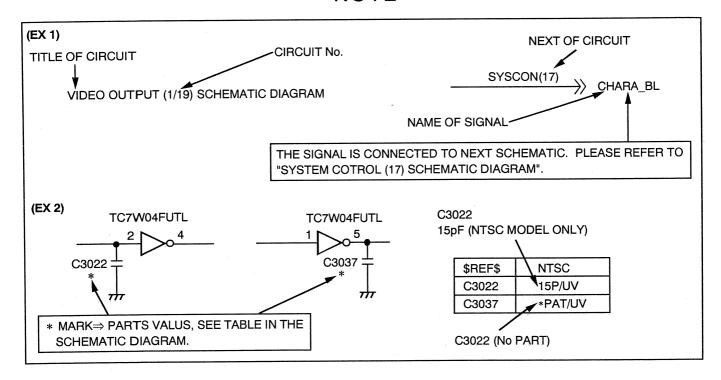


SERVO CONTROL BLOCK DIAGRAM



SCHEMATIC DIAGRAM

NOTE



IMPORTANT SAFETY NOTICE

COMPONENTS IDENTIFIED WITH THE MARK A HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

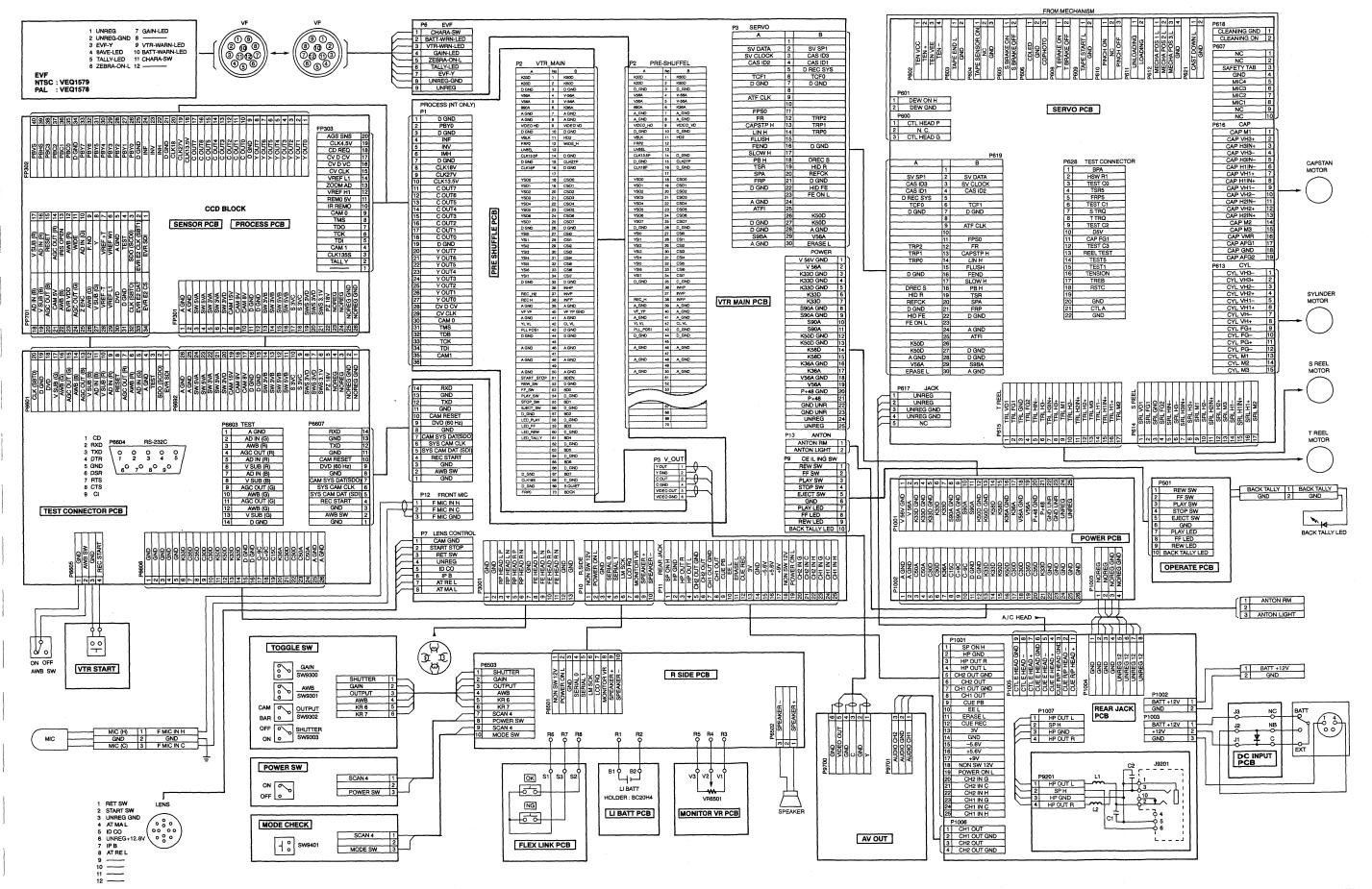
DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST.

AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

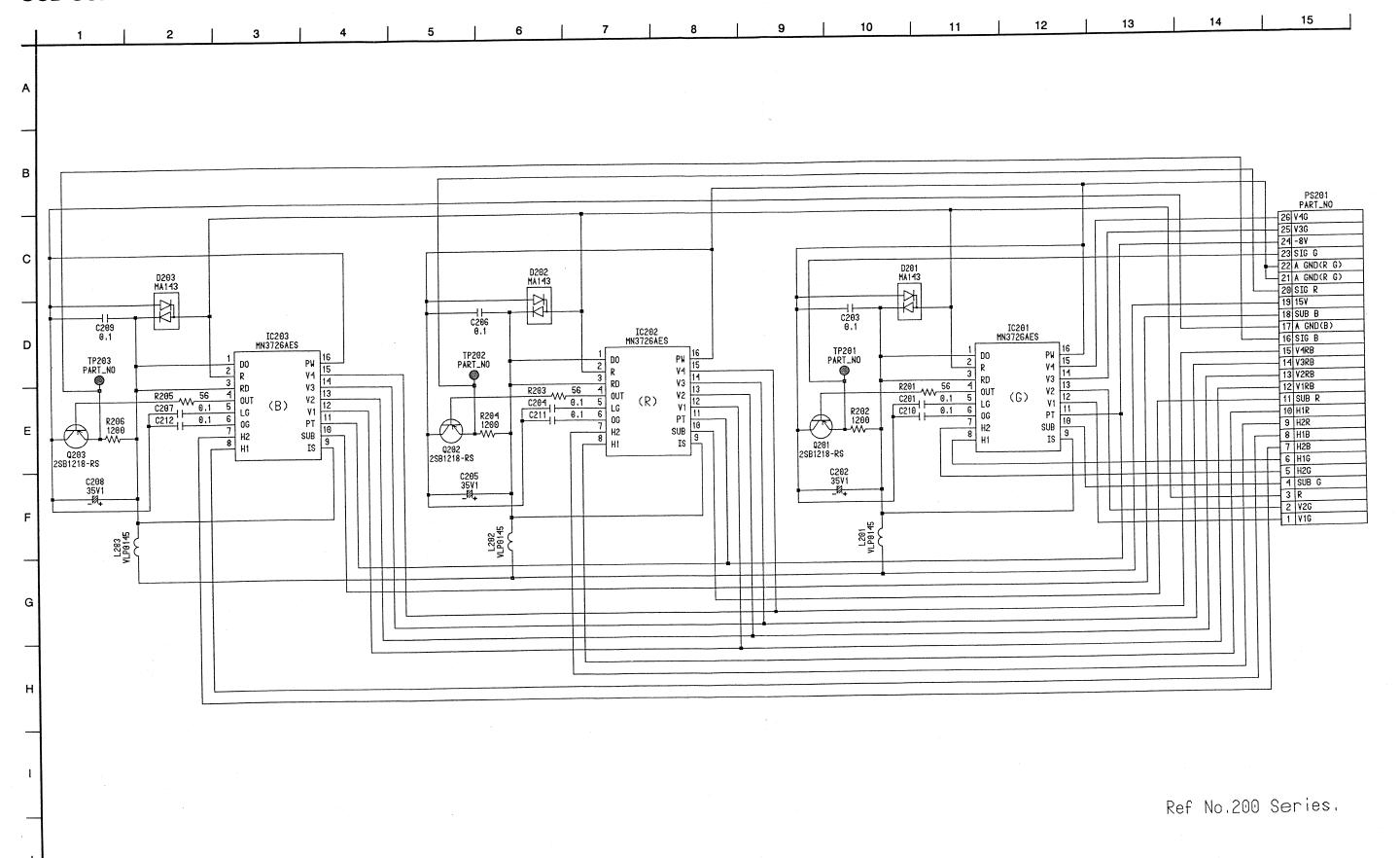
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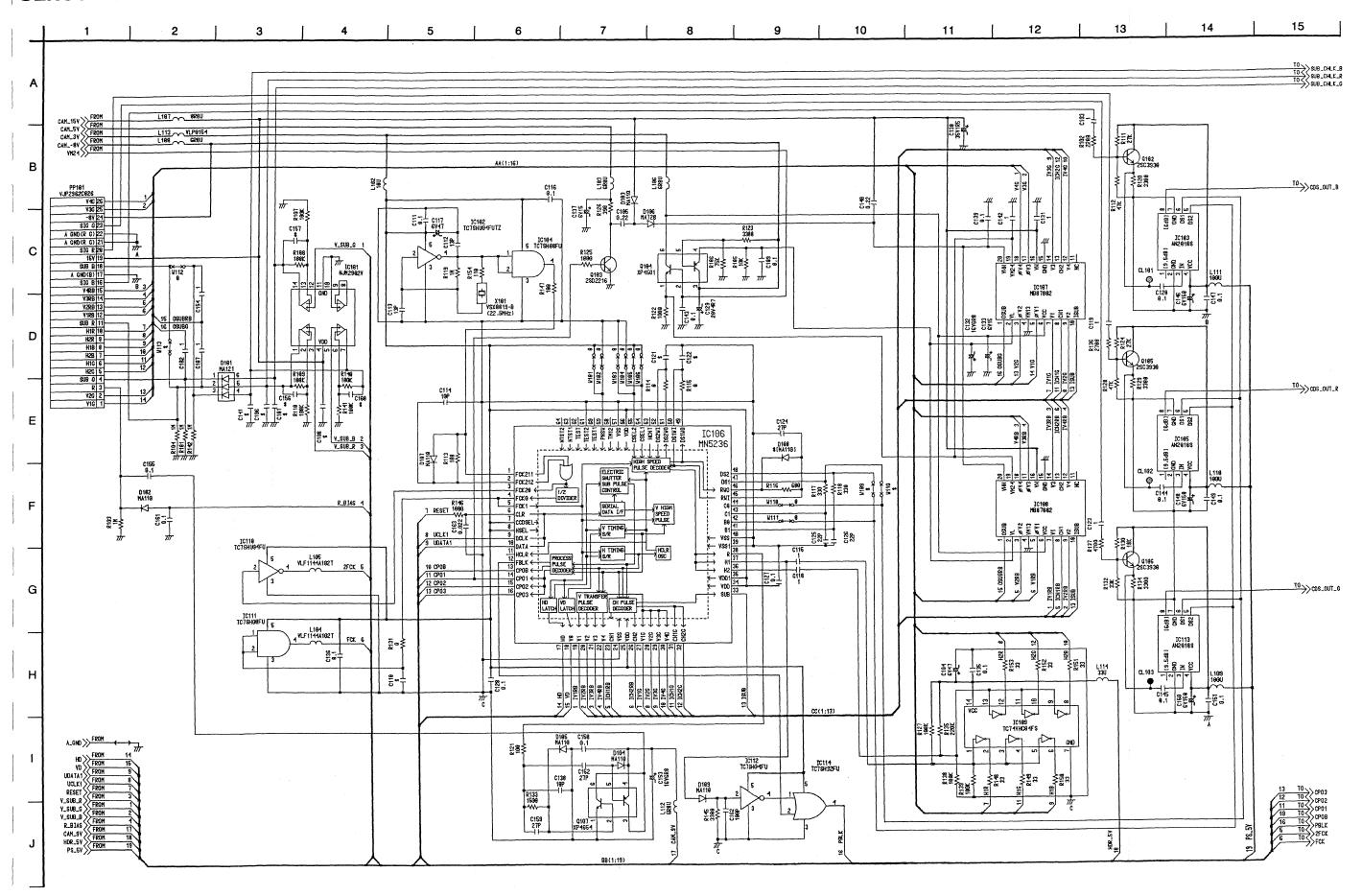
OVERALL SCHEMATIC DIAGRAM



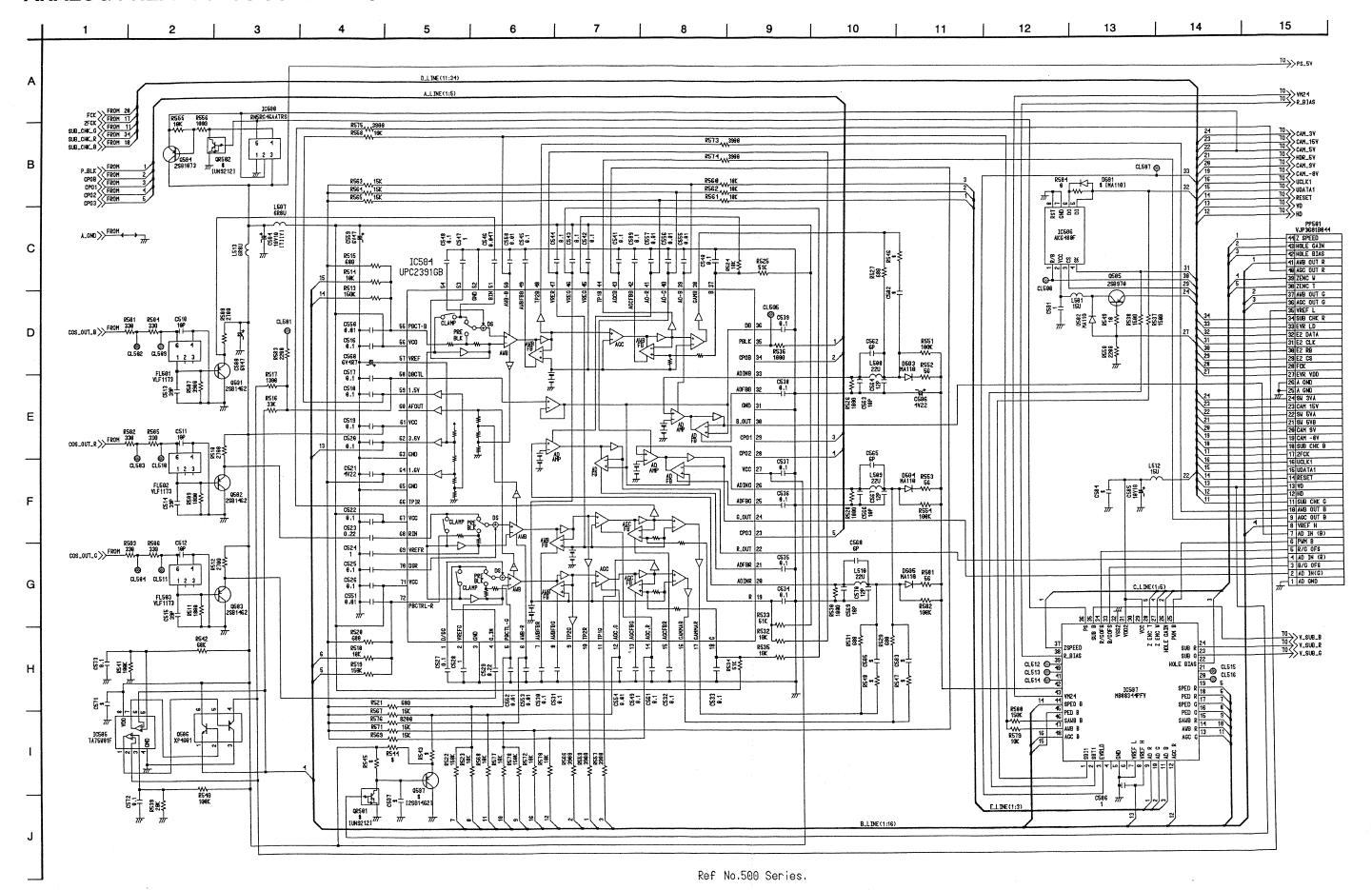
CCD SCHEMATIC DIAGRAM



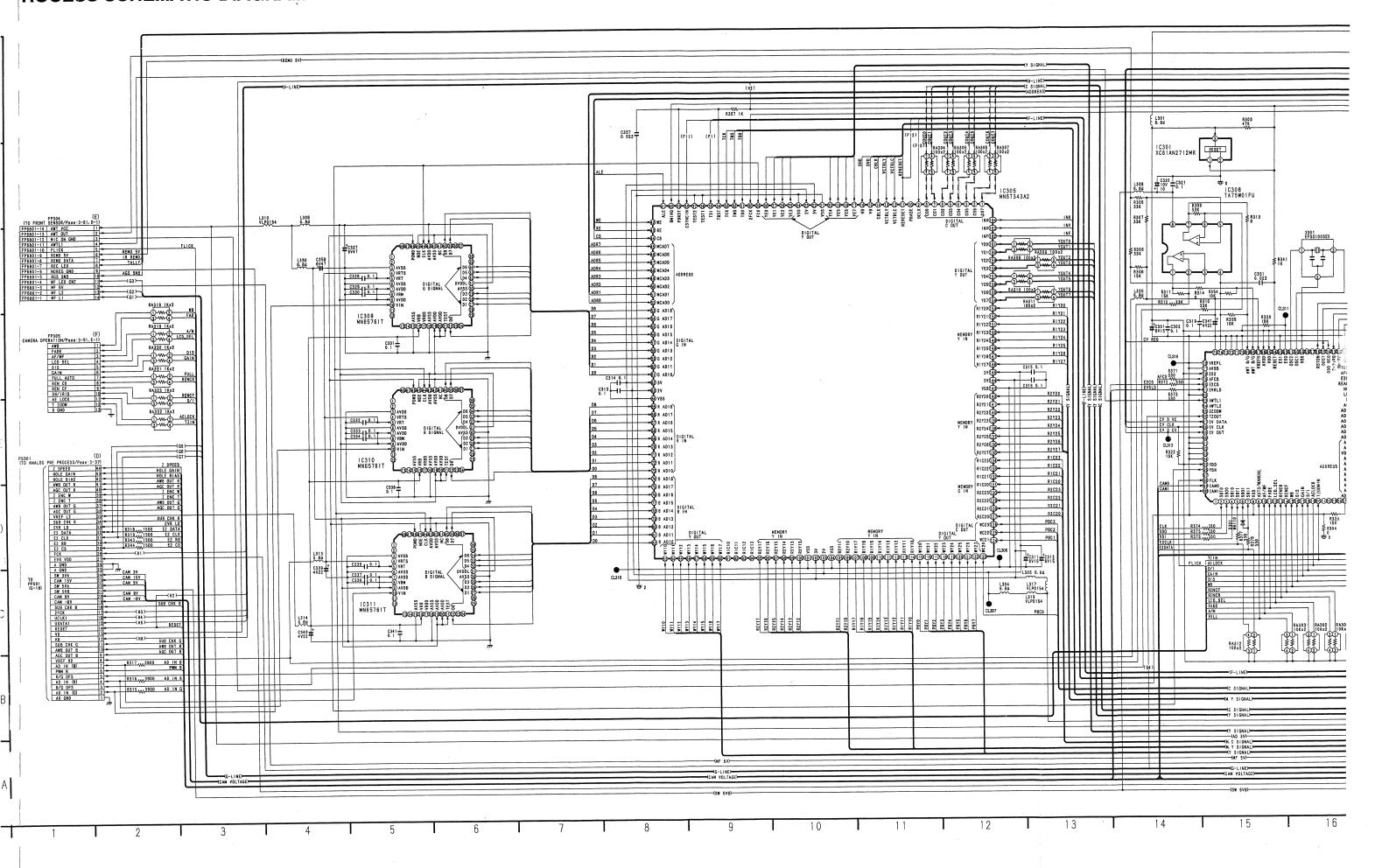
SENSOR SCHEMATIC DIAGRAM

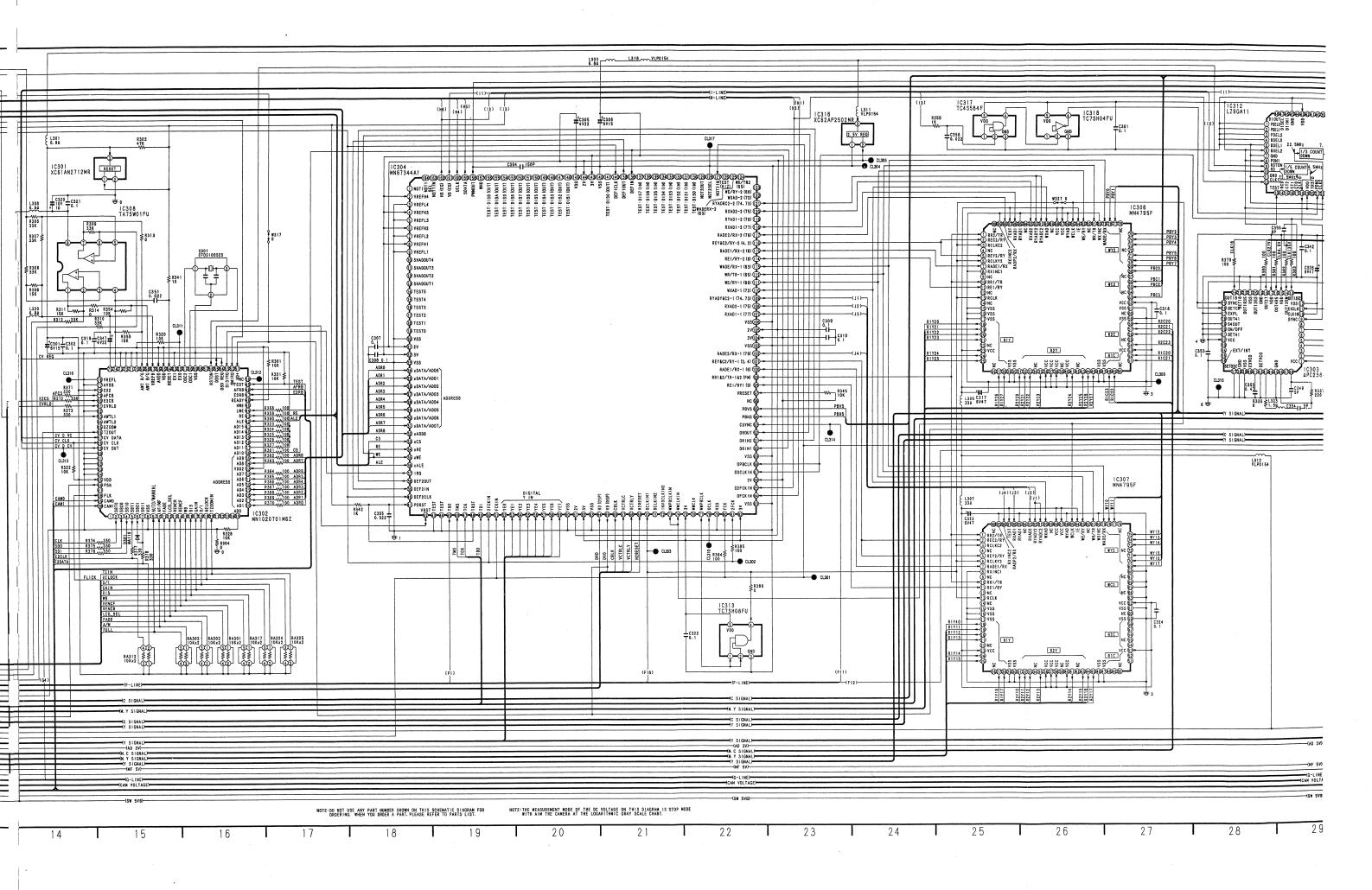


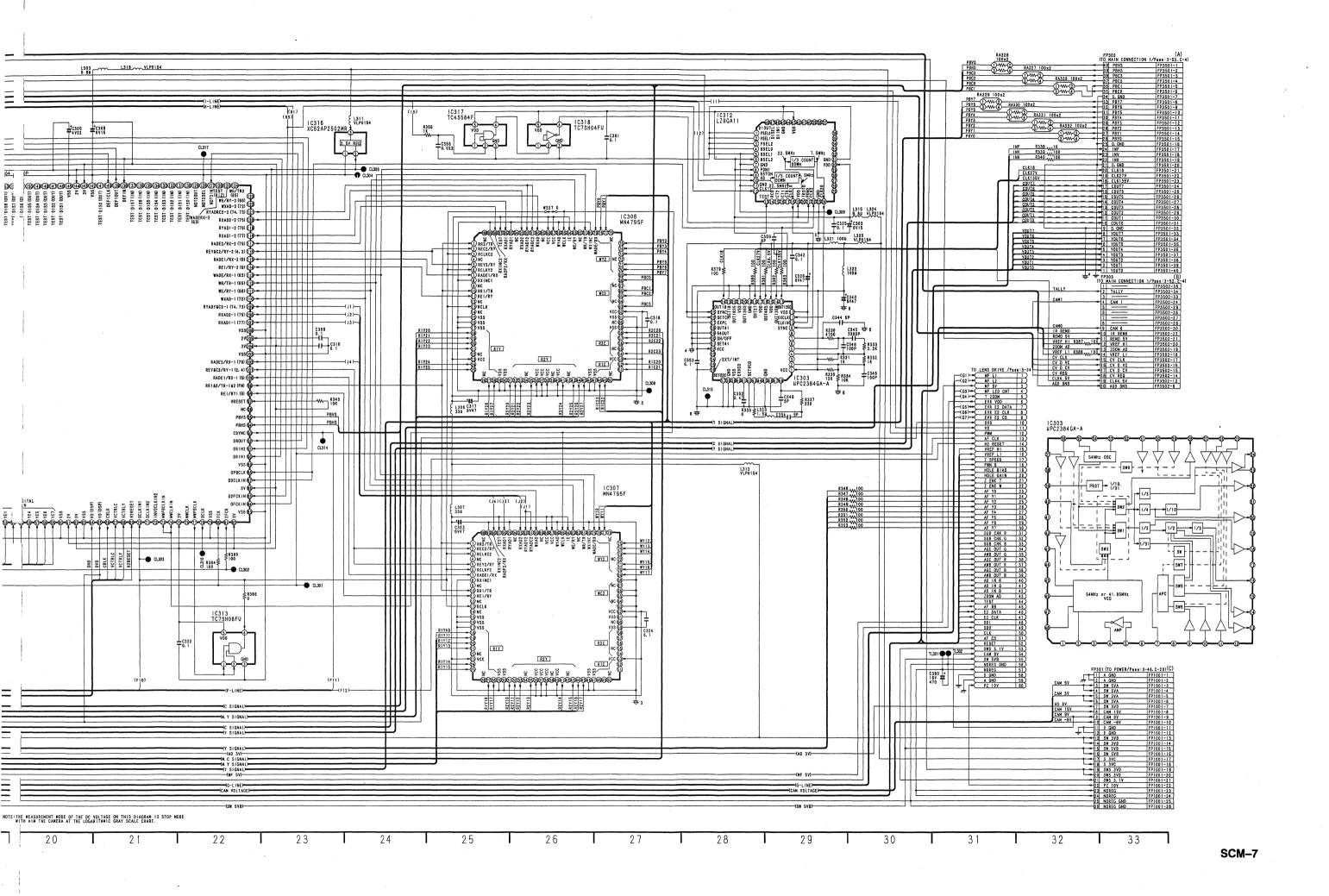
ANALOG PREPROCESS SCHEMATIC DIAGRAM



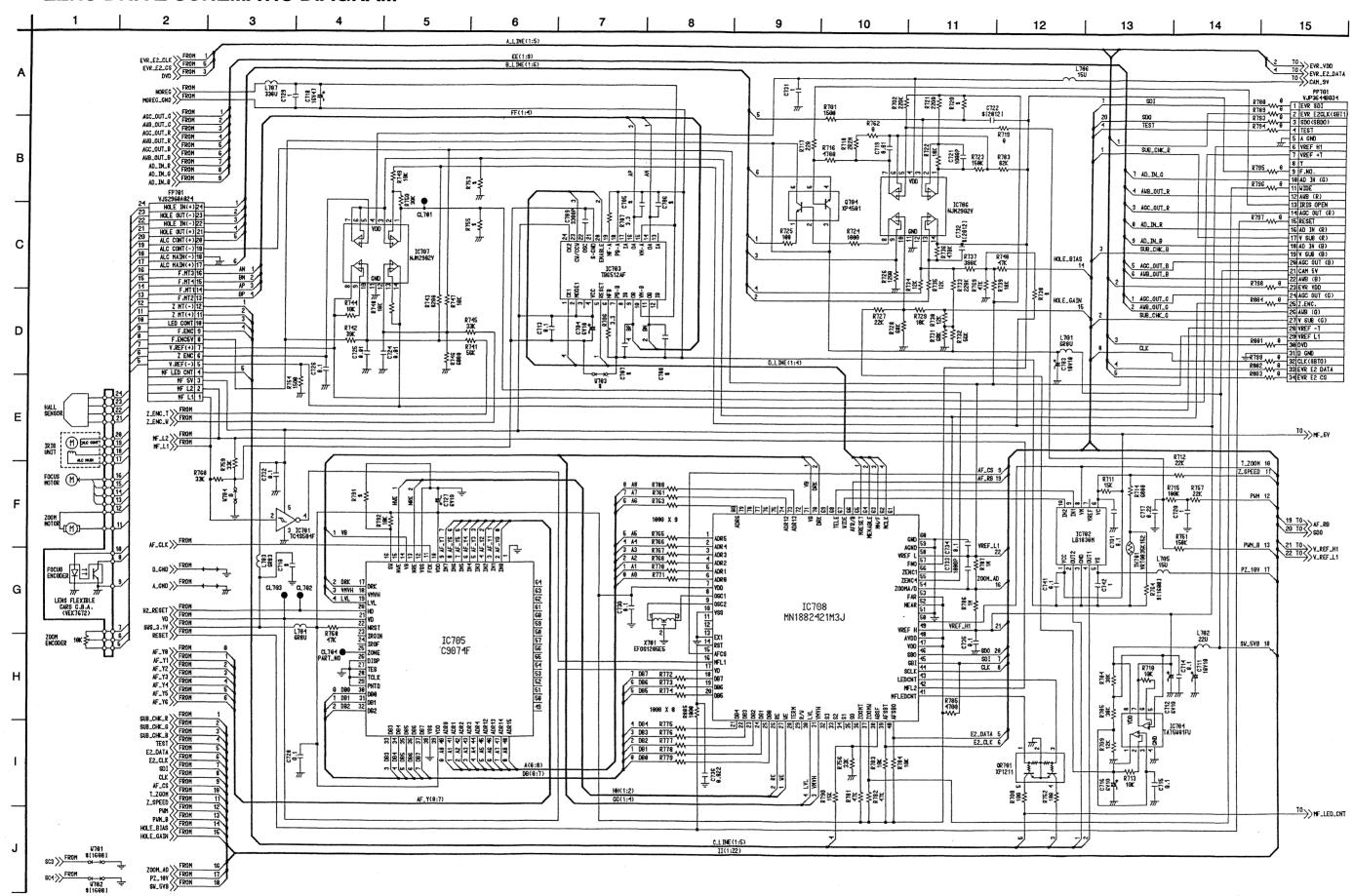
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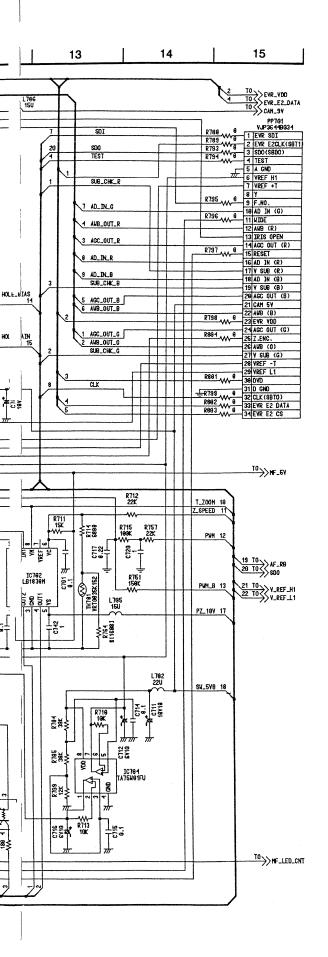




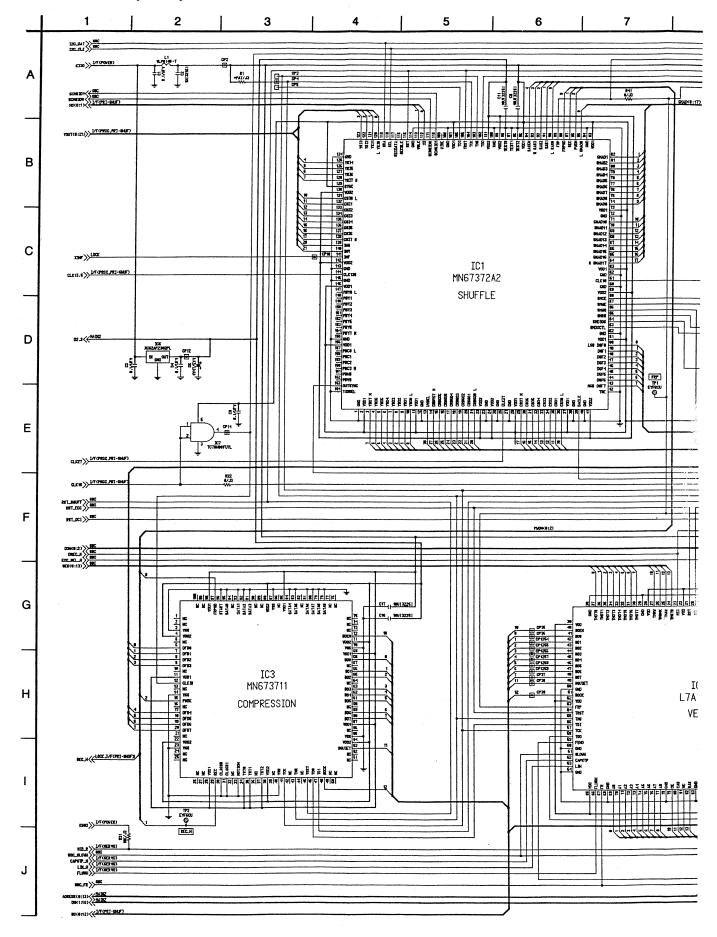


LENS DRIVE SCHEMATIC DIAGRAM

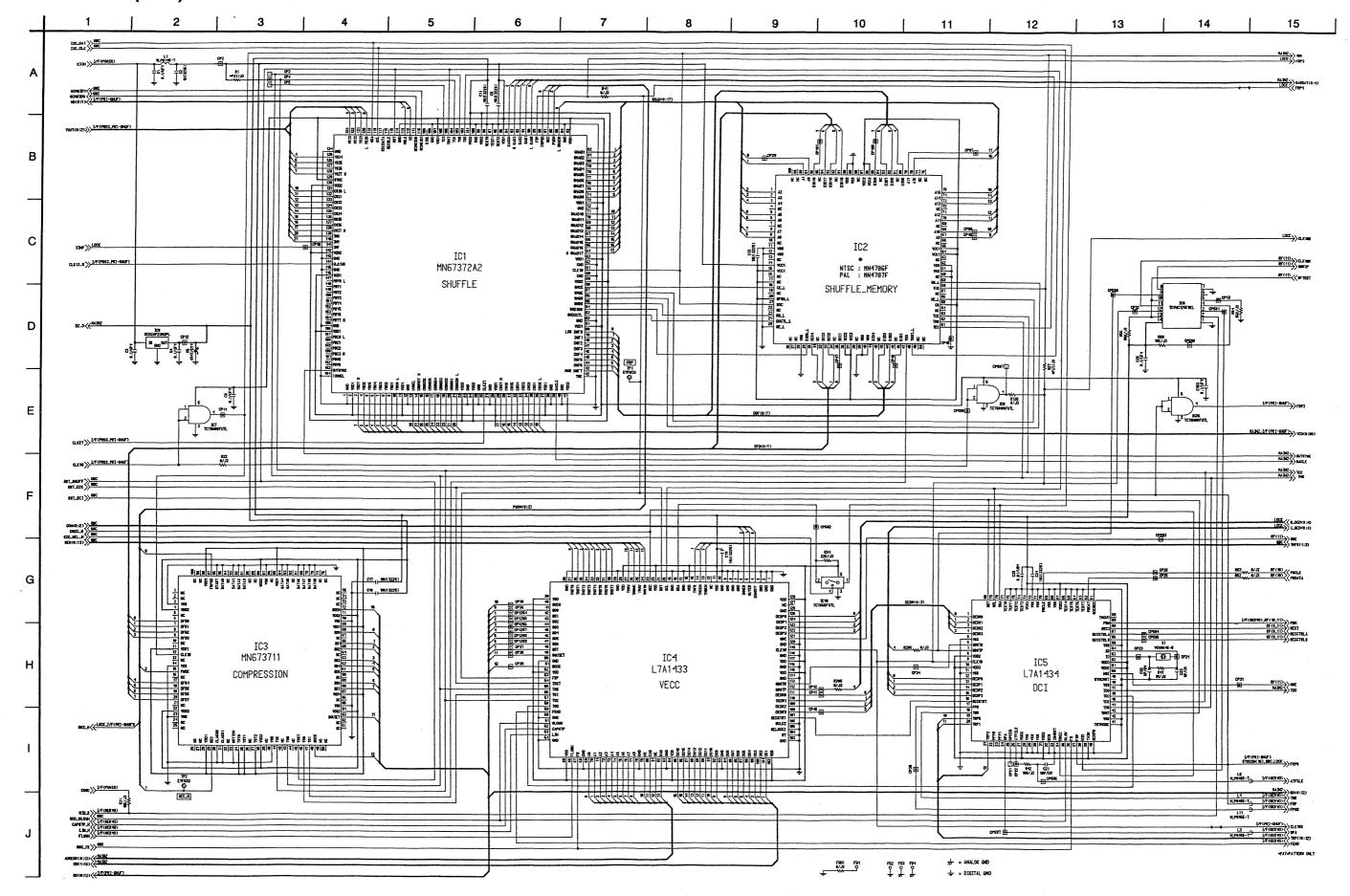




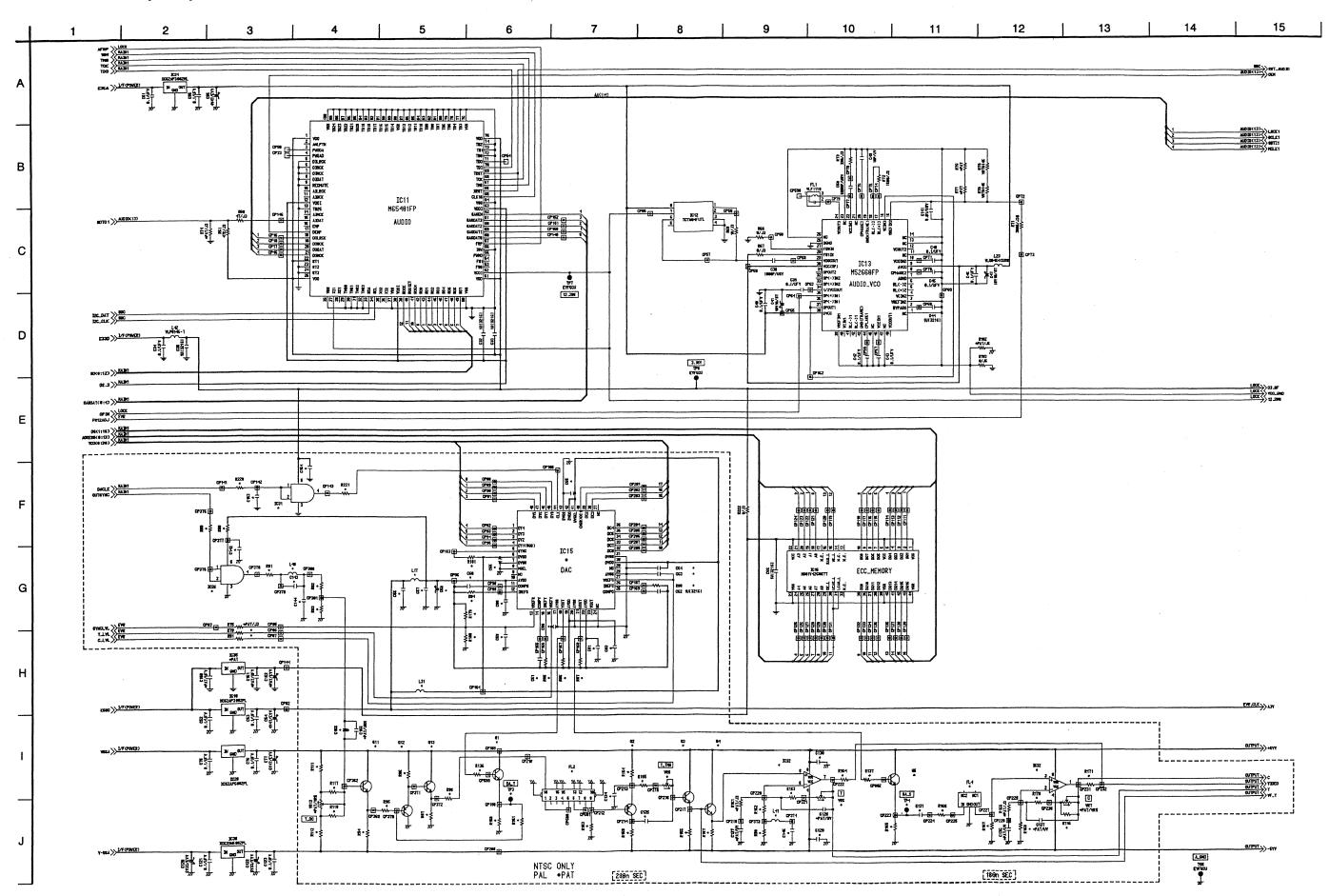
VIDEO MAIN (1/19) SCHEMATIC DIAGRAM



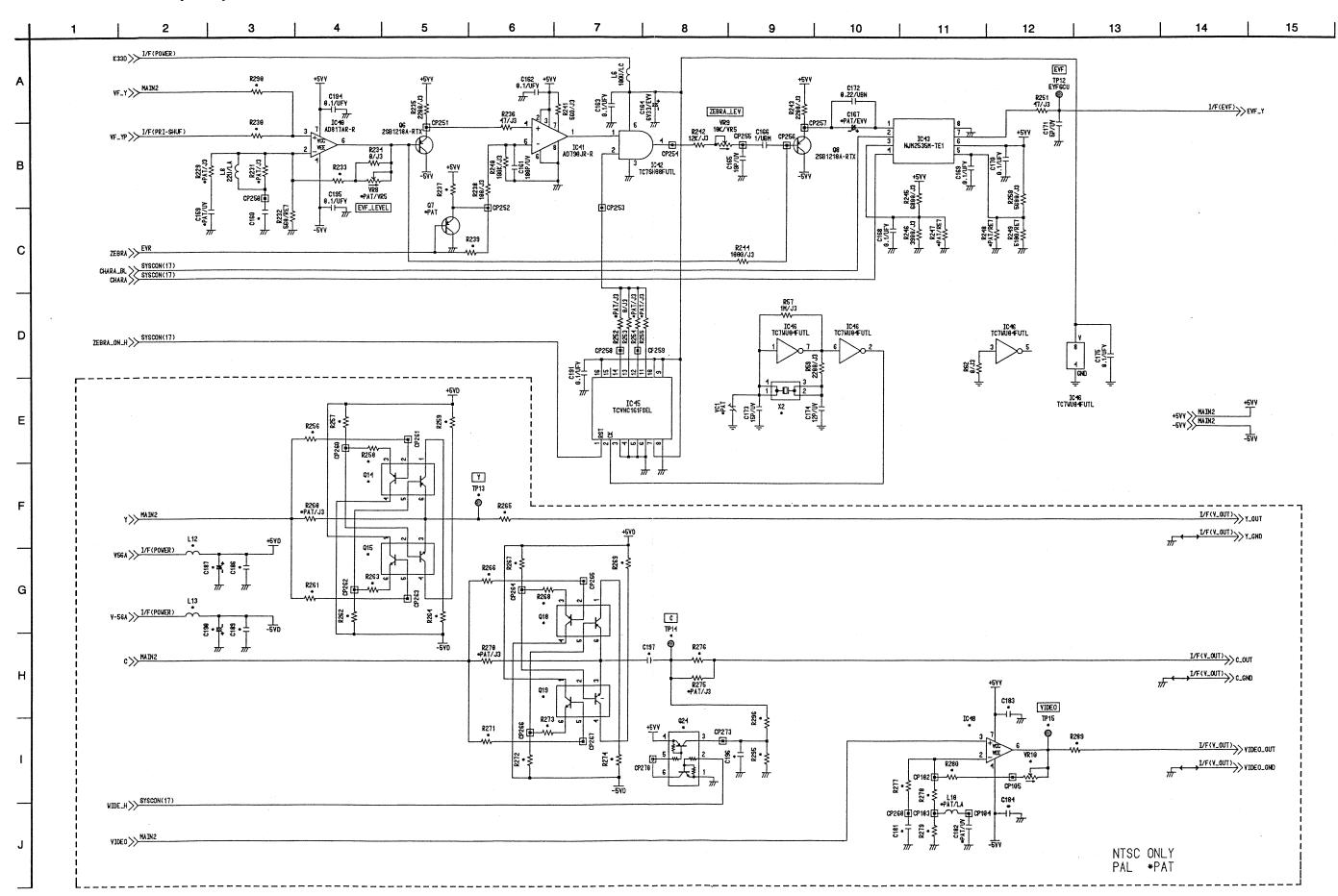
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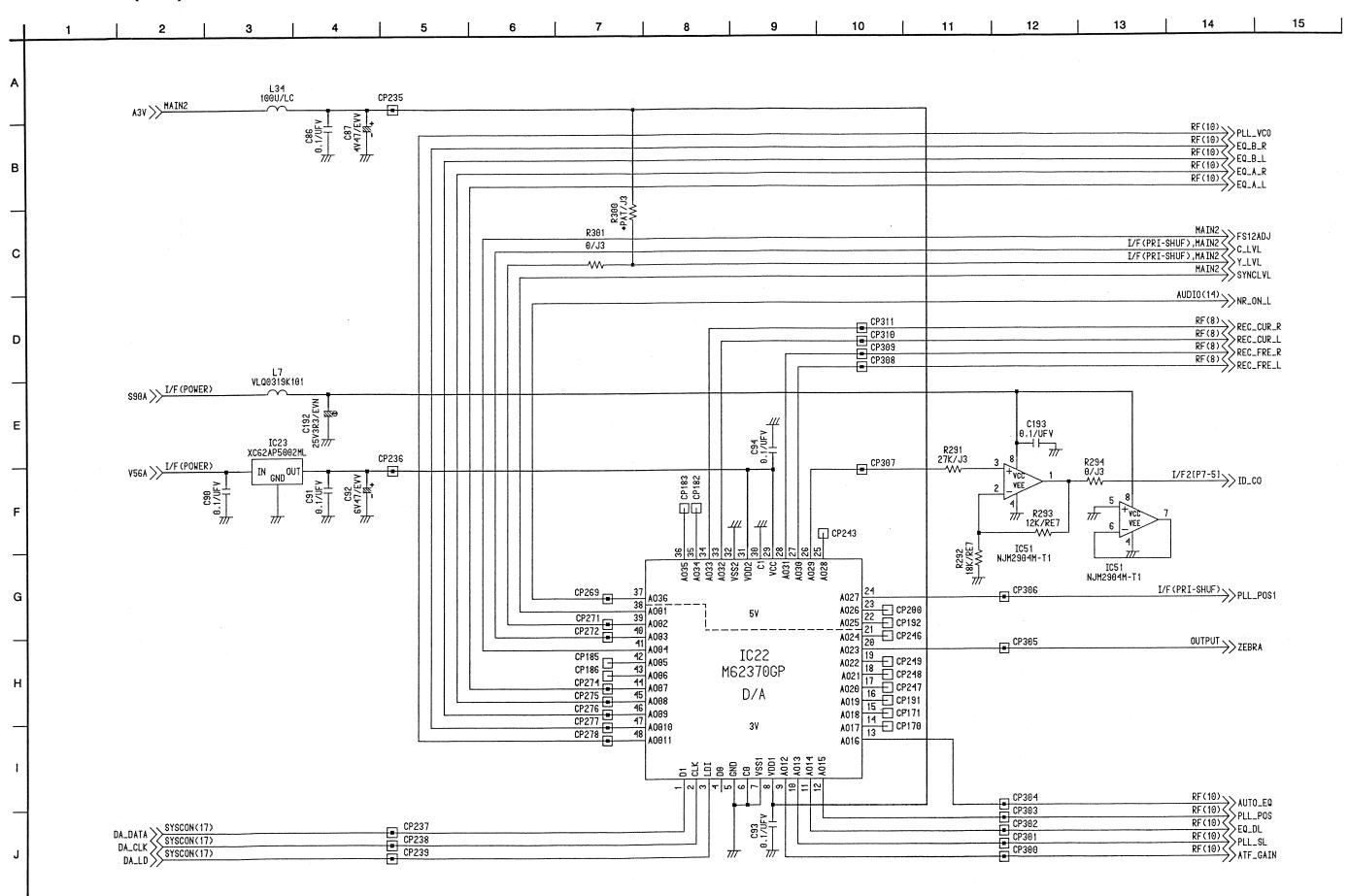
VIDEO MAIN (2/19) SCHEMATIC DIAGRAM



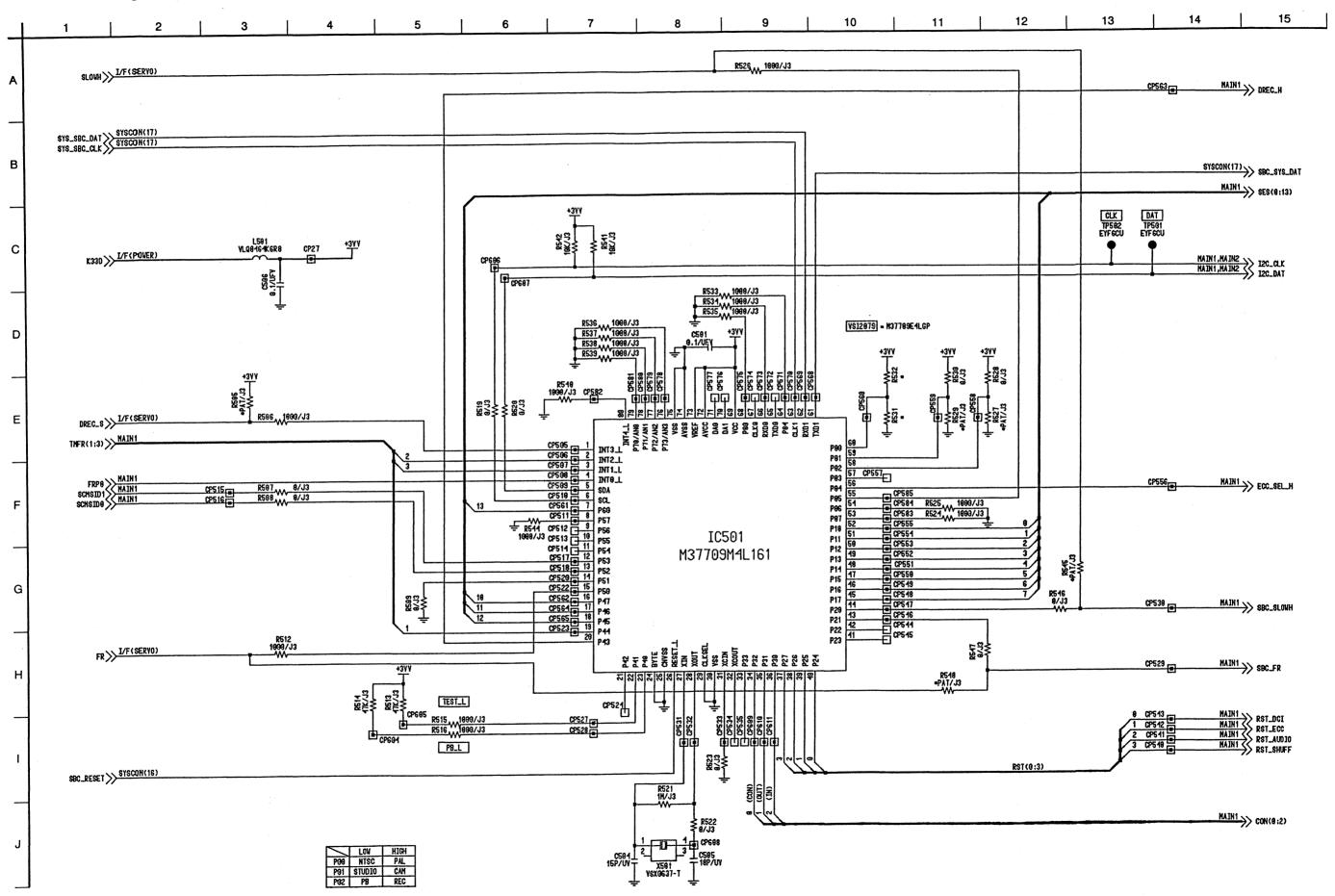
VIDEO OUTPUT (3/19) SCHEMATIC DIAGRAM



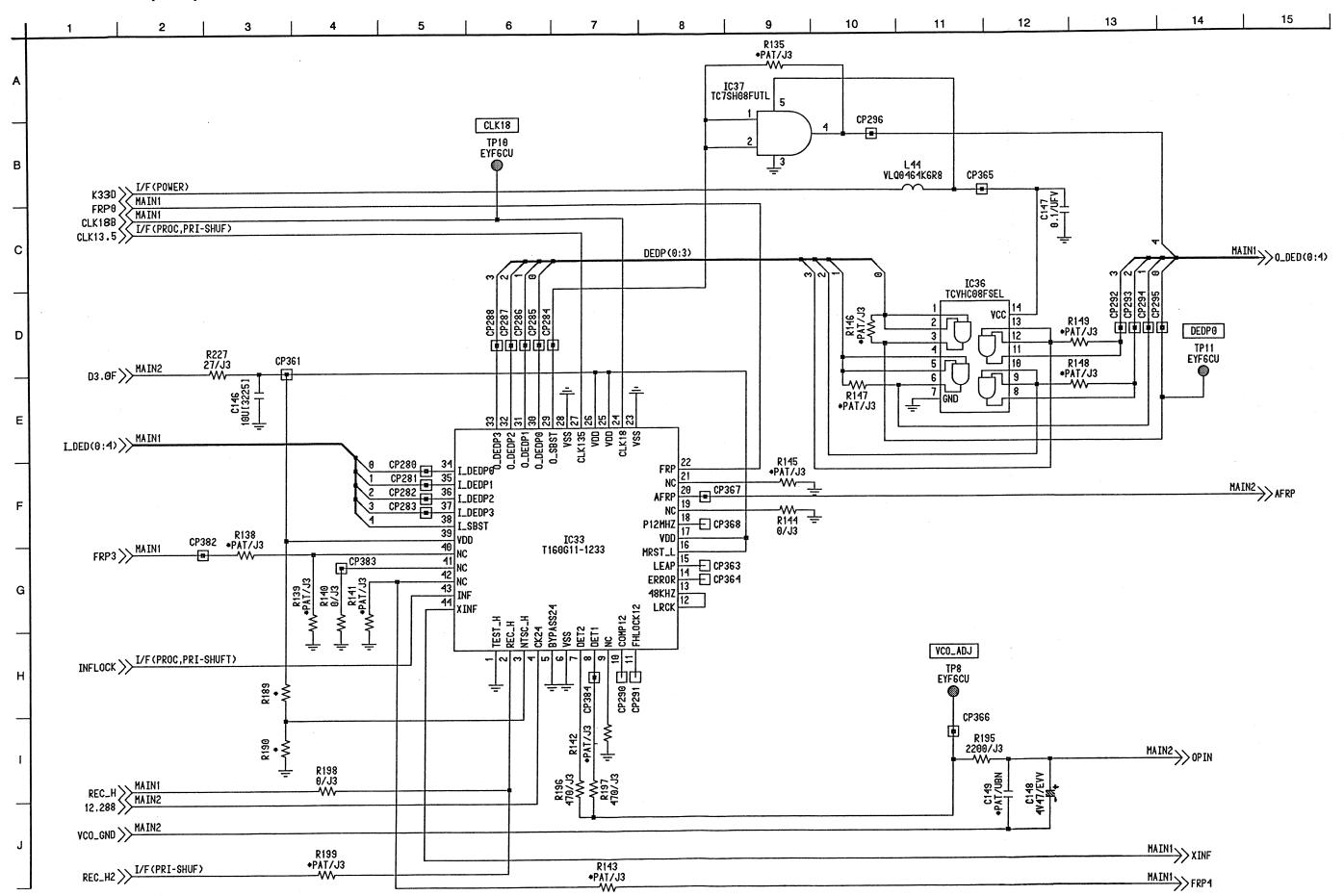
VIDEO EVR (4/19) SCHEMATIC DIAGRAM



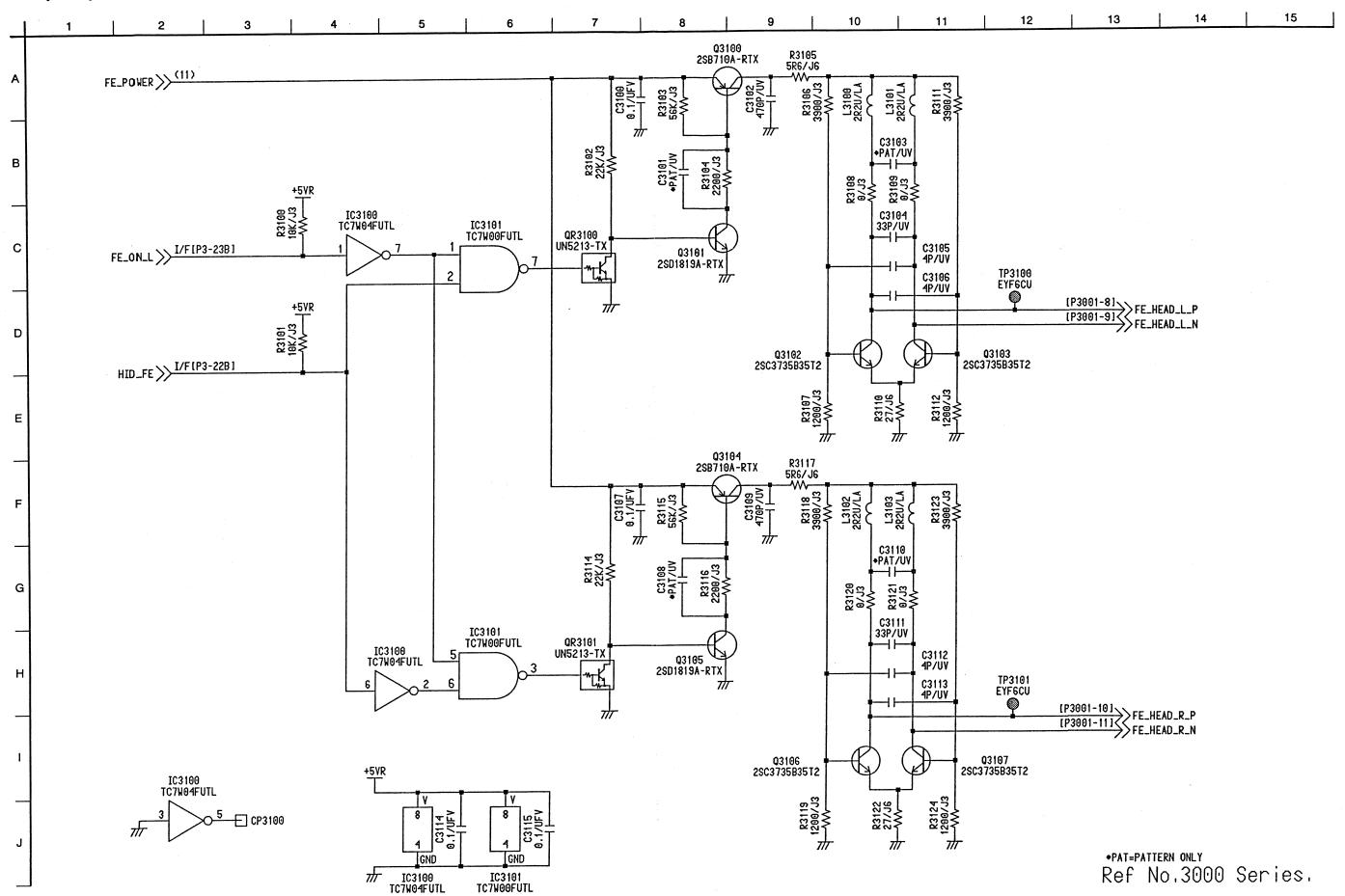
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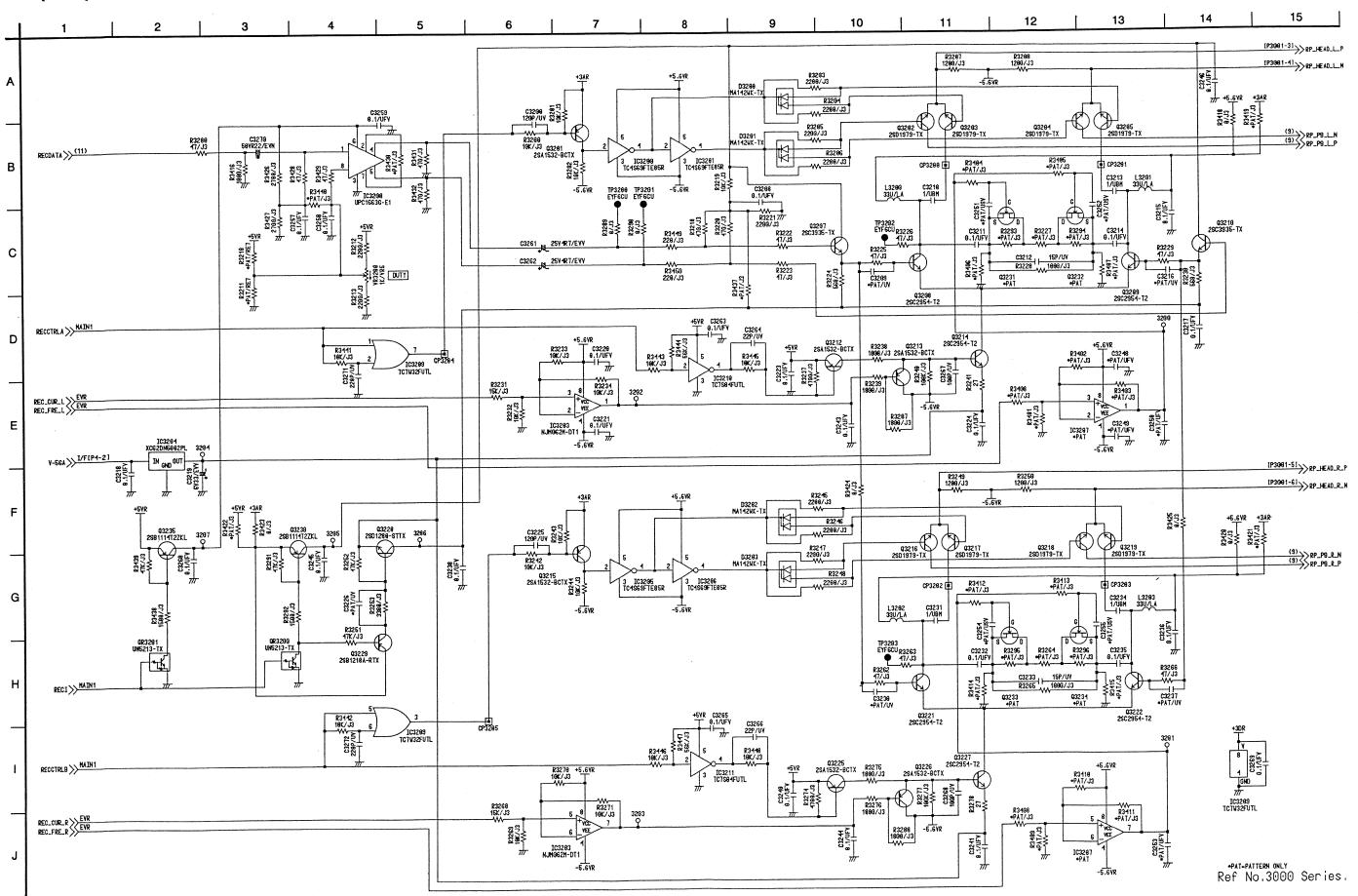
VIDEO LOCK (6/19) SCHEMATIC DIAGRAM



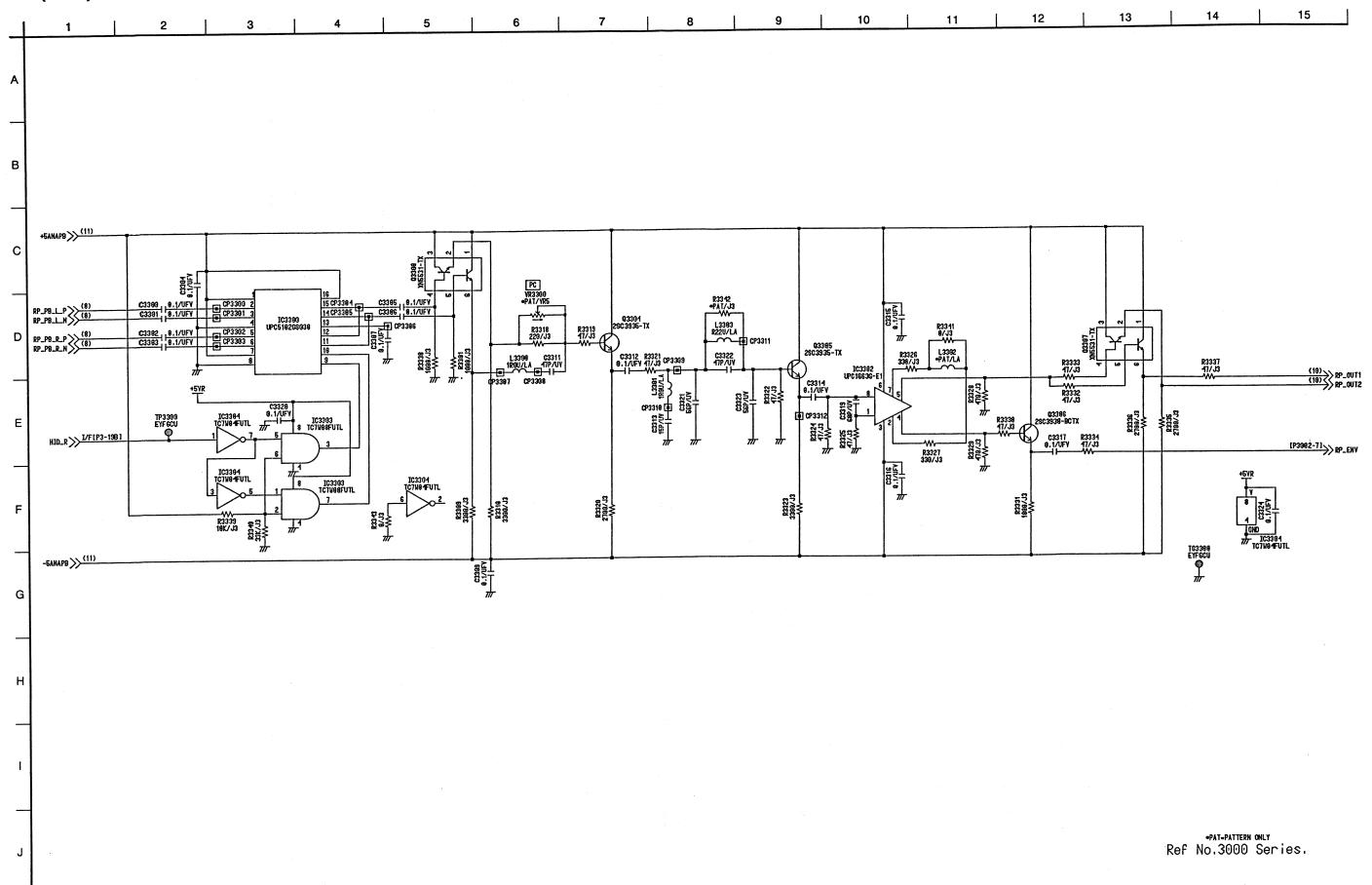
RF (7/19) SCHEMATIC DIAGRAM



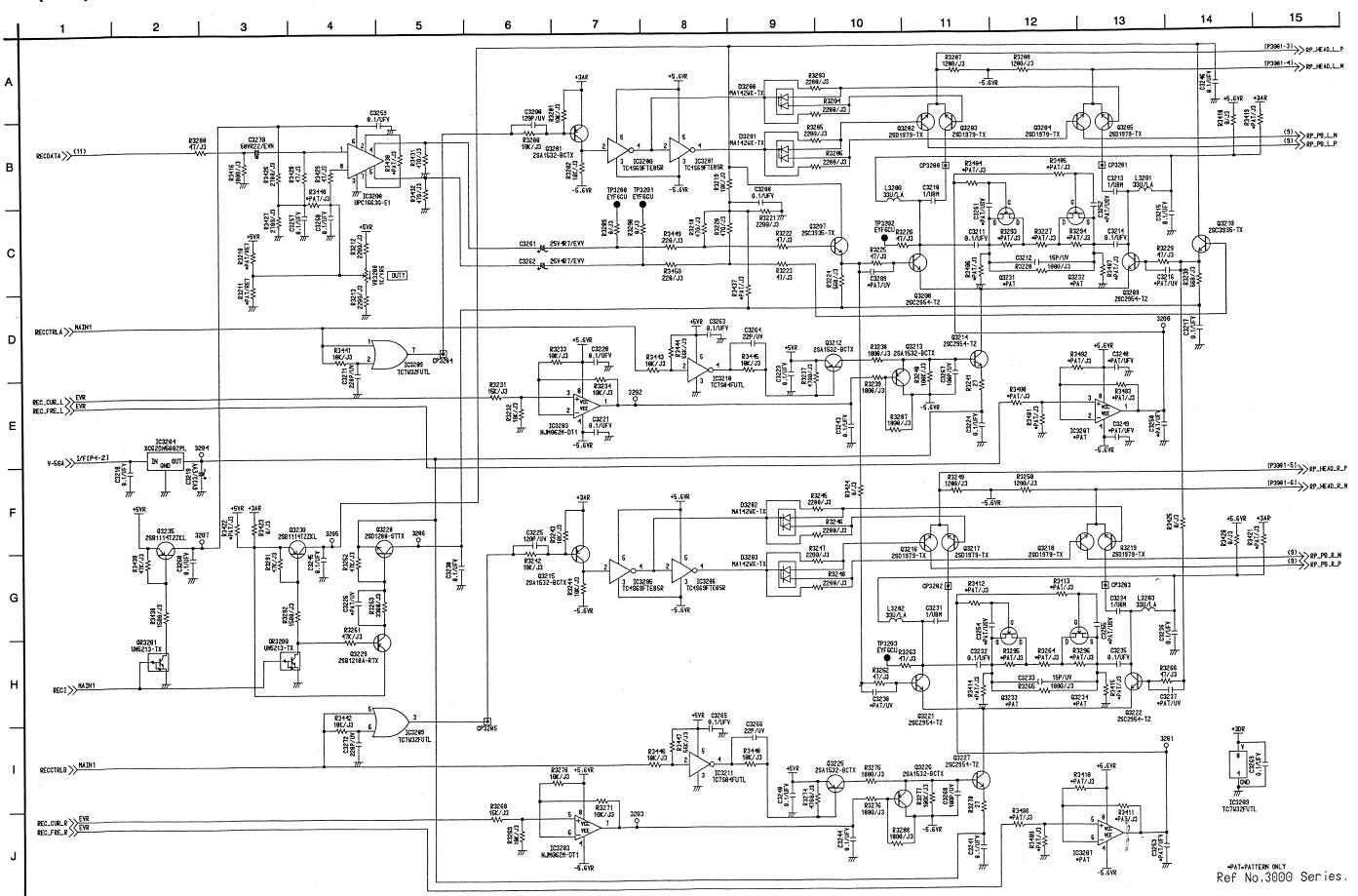
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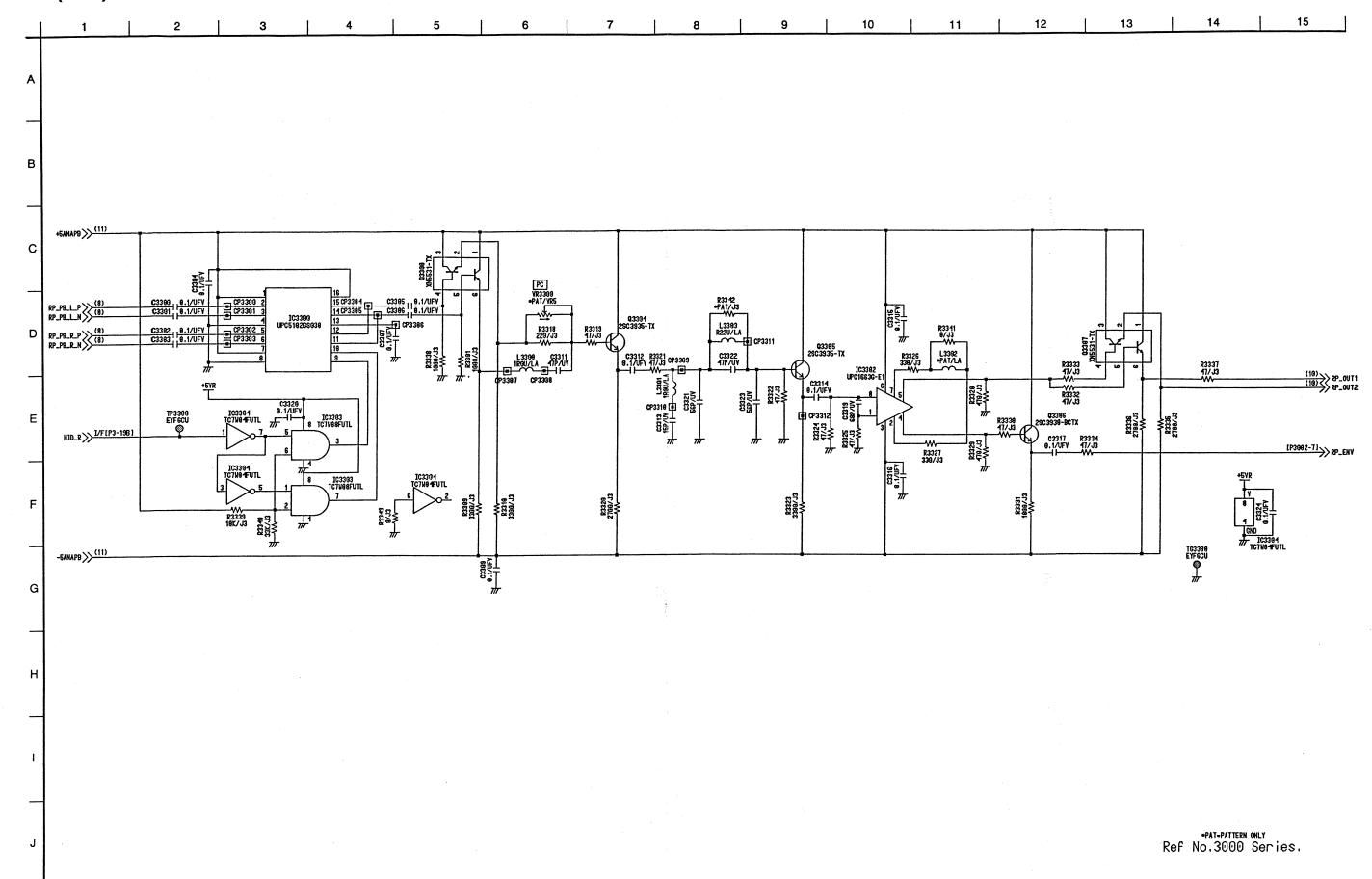
RF (9/19) SCHEMATIC DIAGRAM



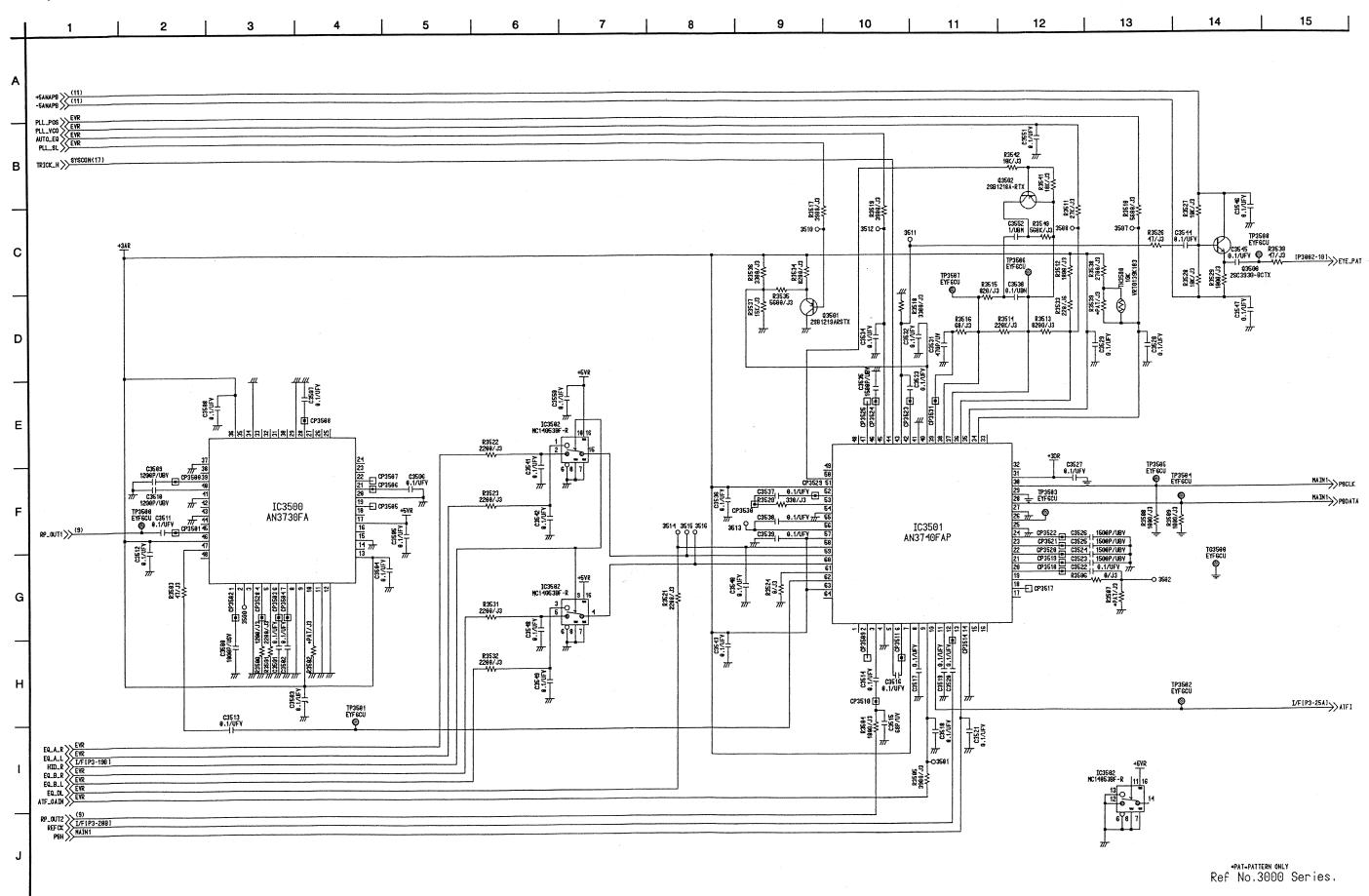
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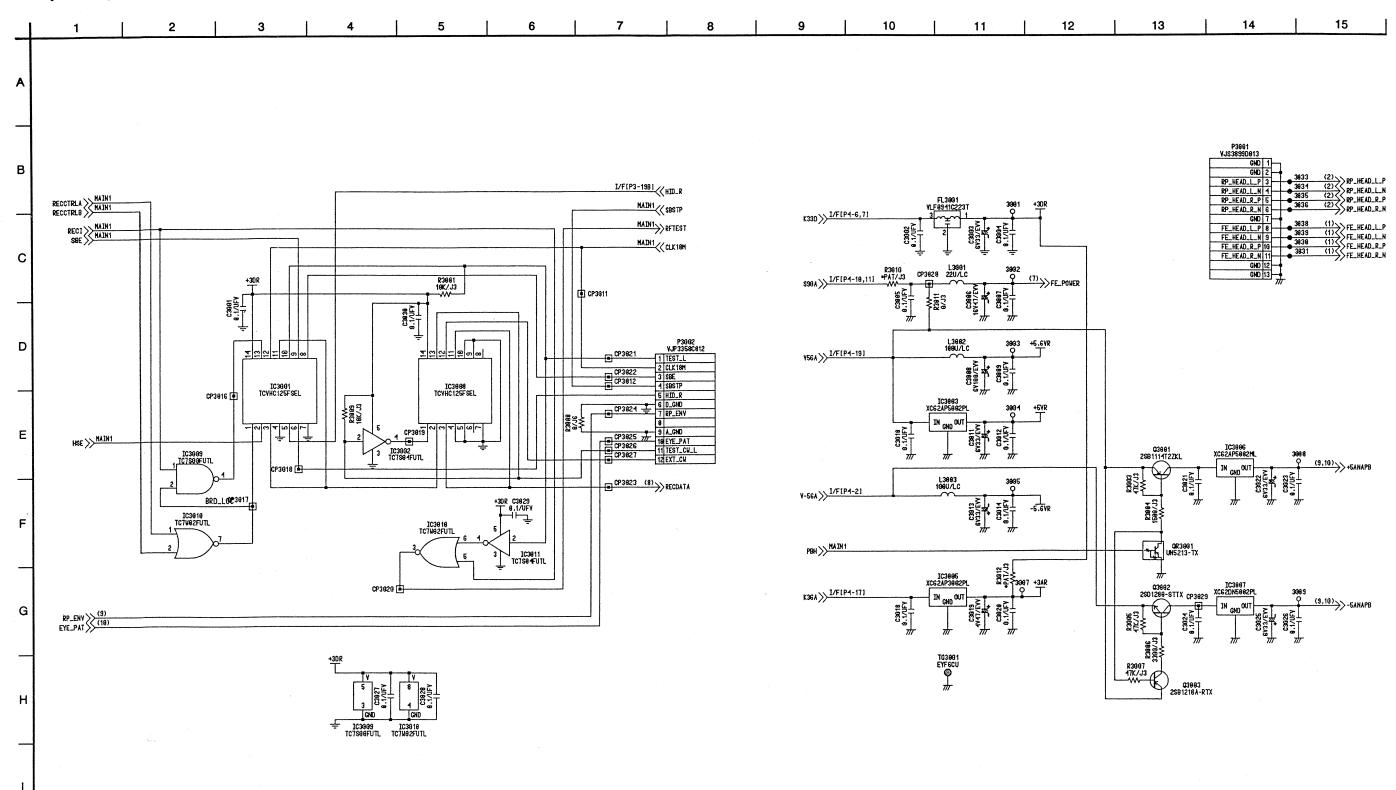
RF (9/19) SCHEMATIC DIAGRAM



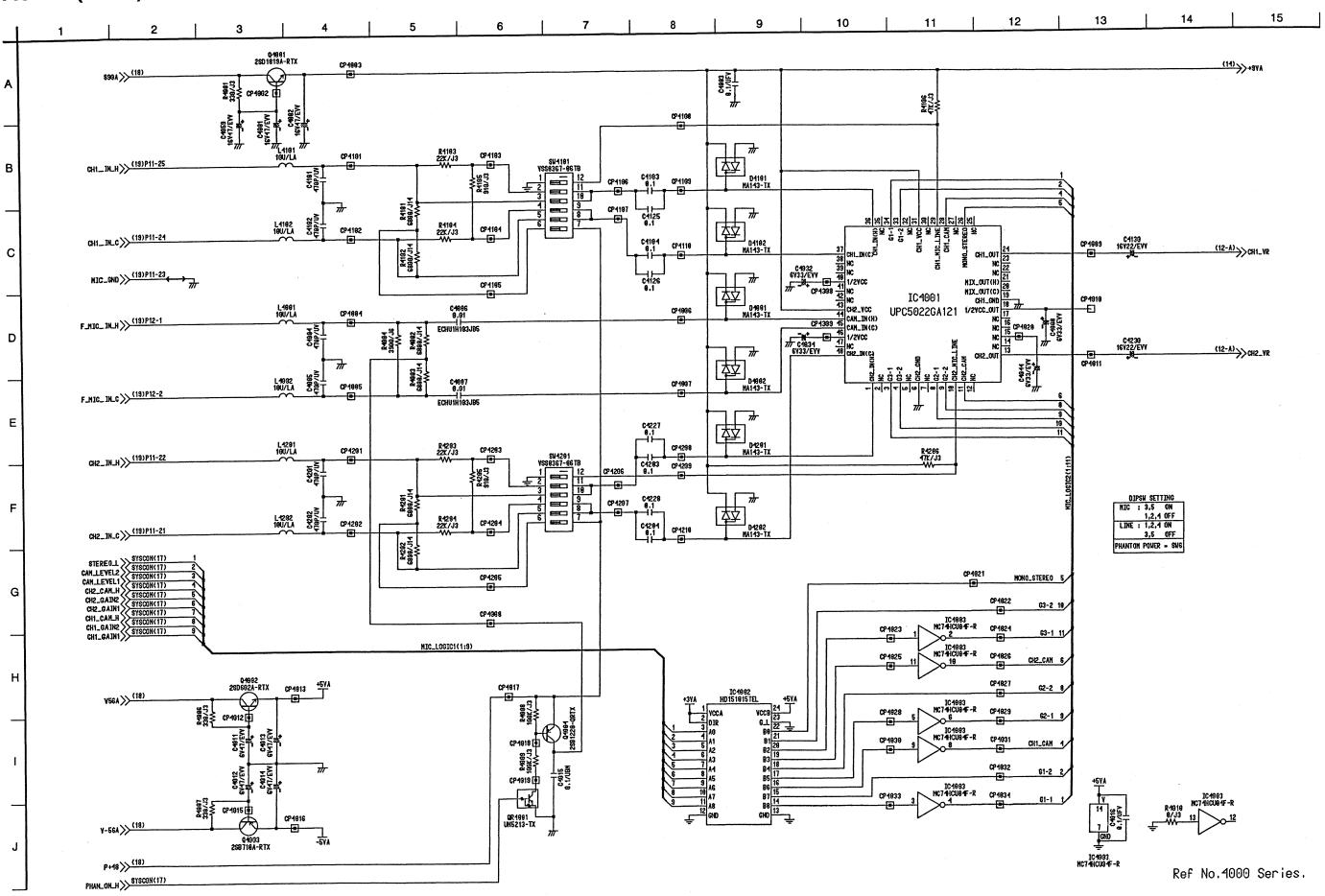
RF (10/19) SCHEMATIC DIAGRAM



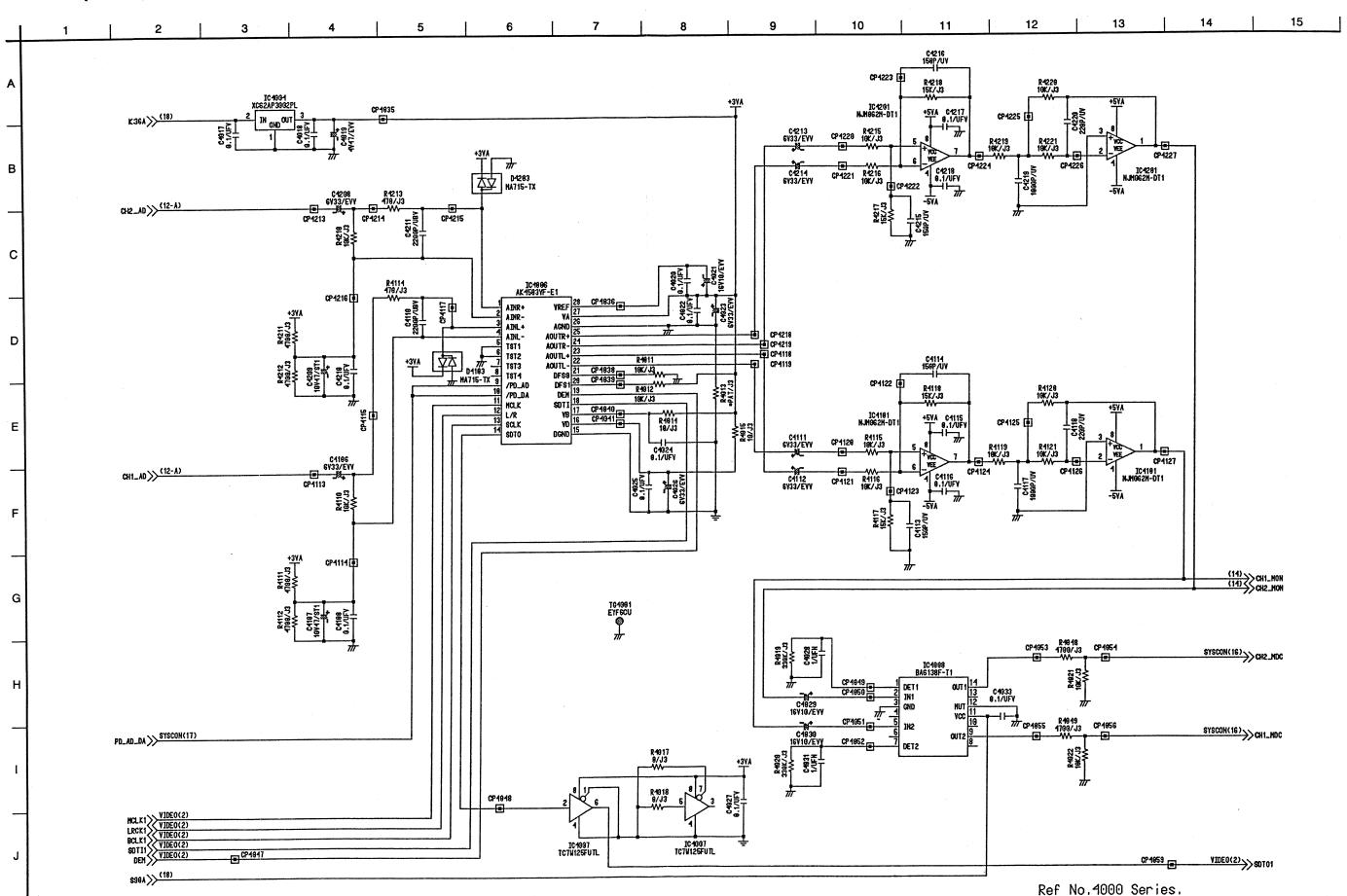
RF (11/19) SCHEMATIC DIAGRAM



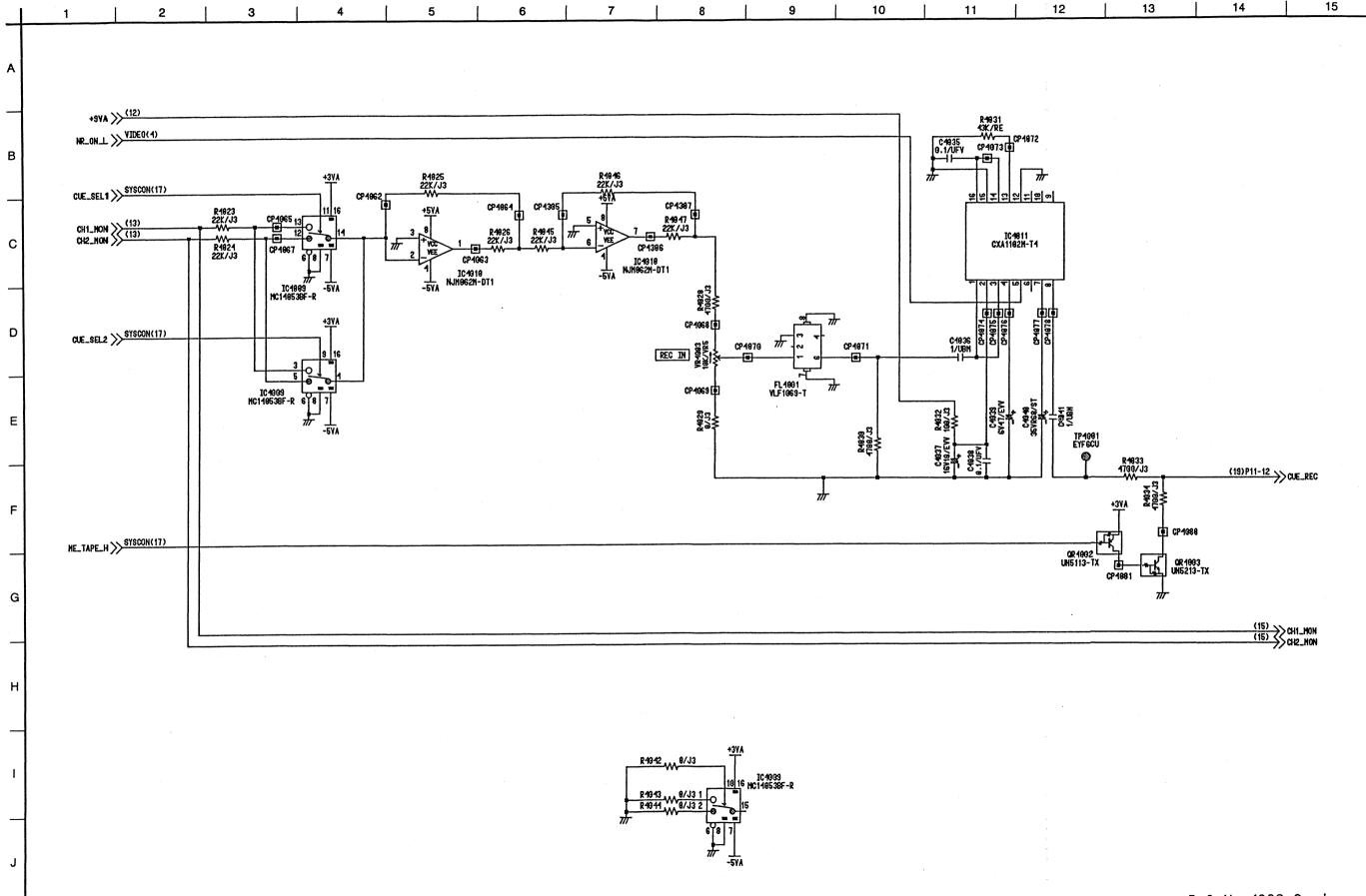
AUDIO (12/19) SCHEMATIC DIAGRAM



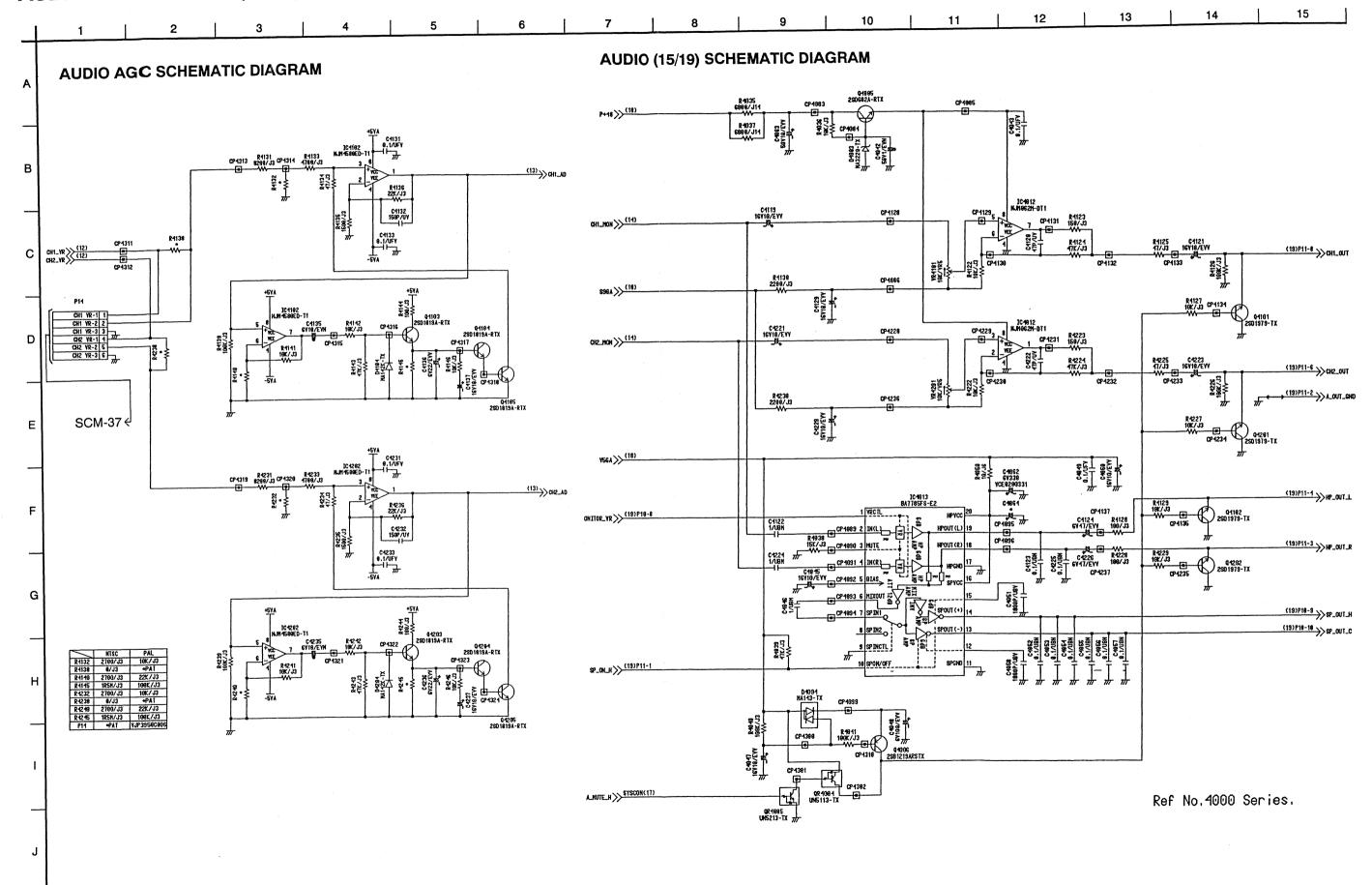
AUDIO (13/19) SCHEMATIC DIAGRAM



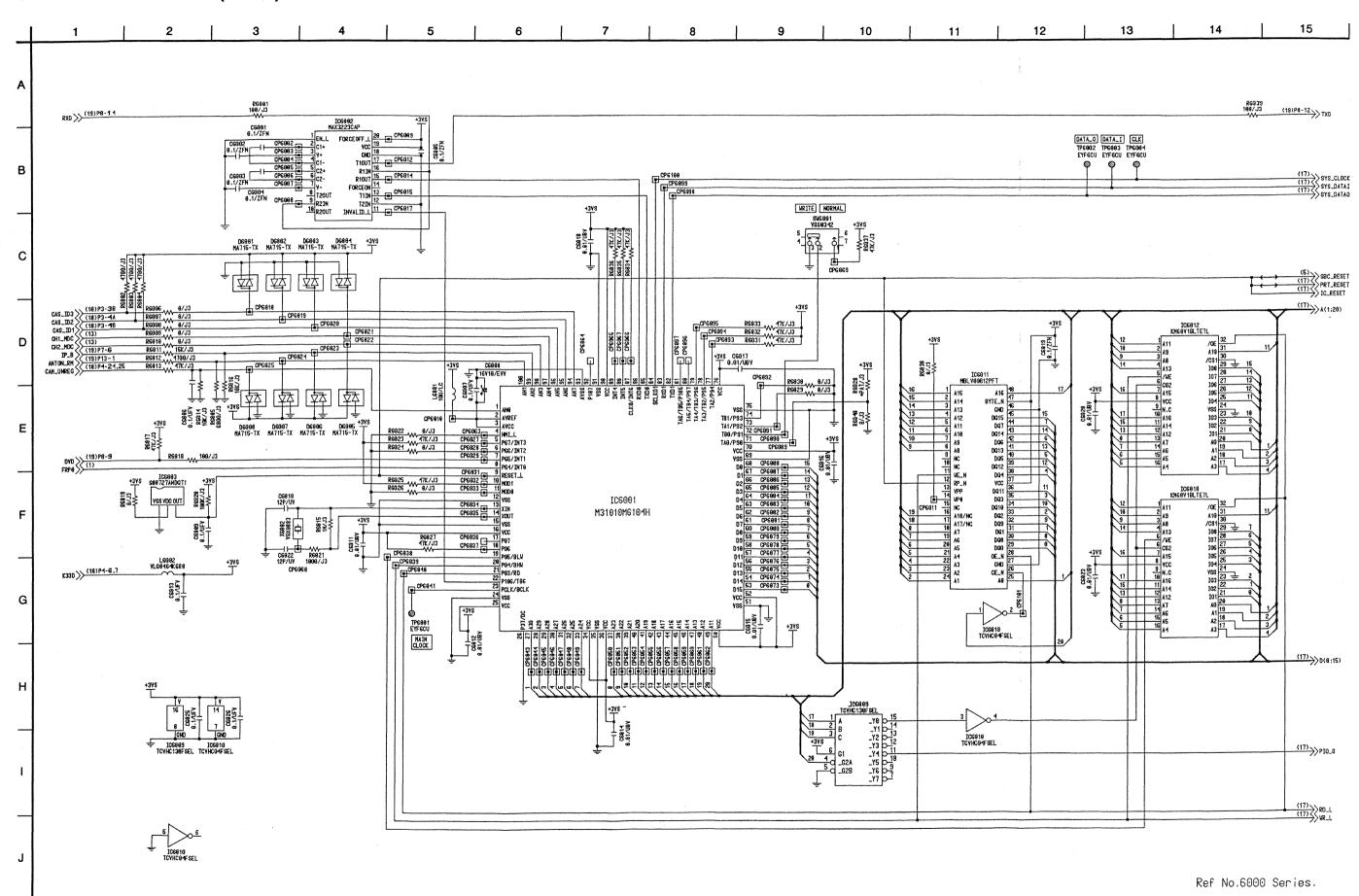
AUDIO (14/19) SCHEMATIC DIAGRAM



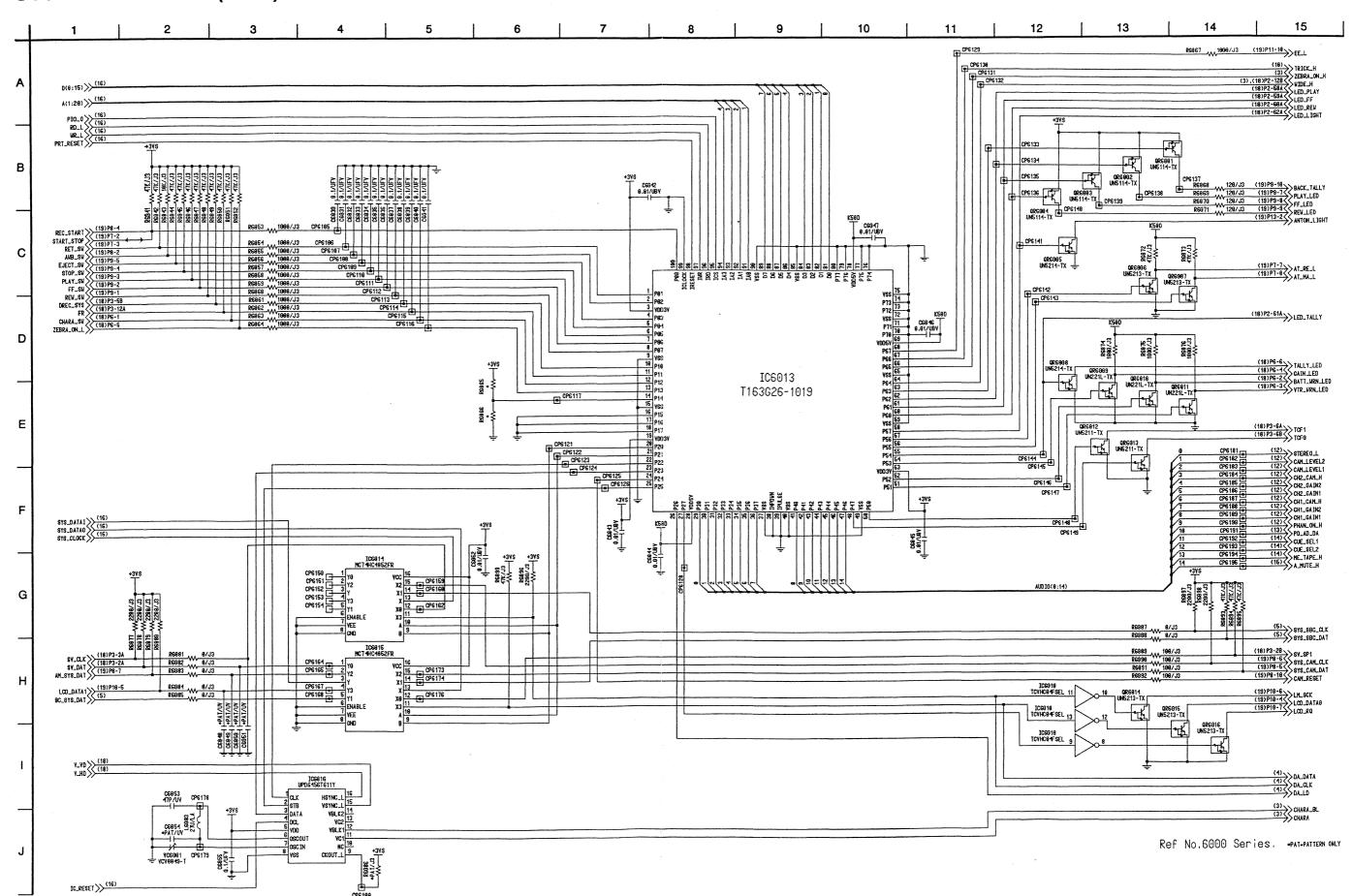
AUDIO AGC & AUDIO (15/19) SCHEMATIC DIAGRAM



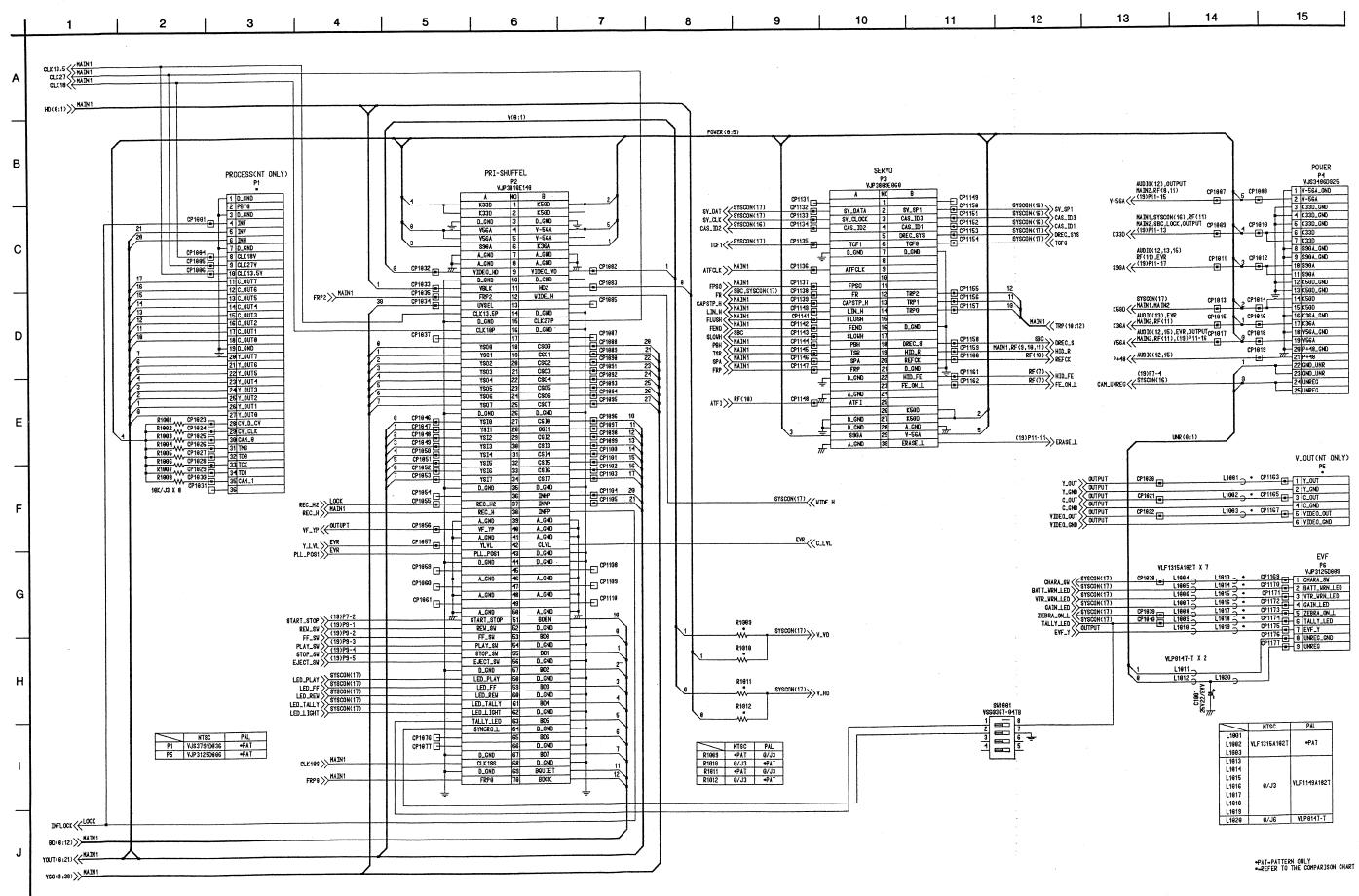
SYSTEM CONTROL (16/19) SCHEMATIC DIAGRAM



SYSTEM CONTROL (17/19) SCHEMATIC DIAGRAM



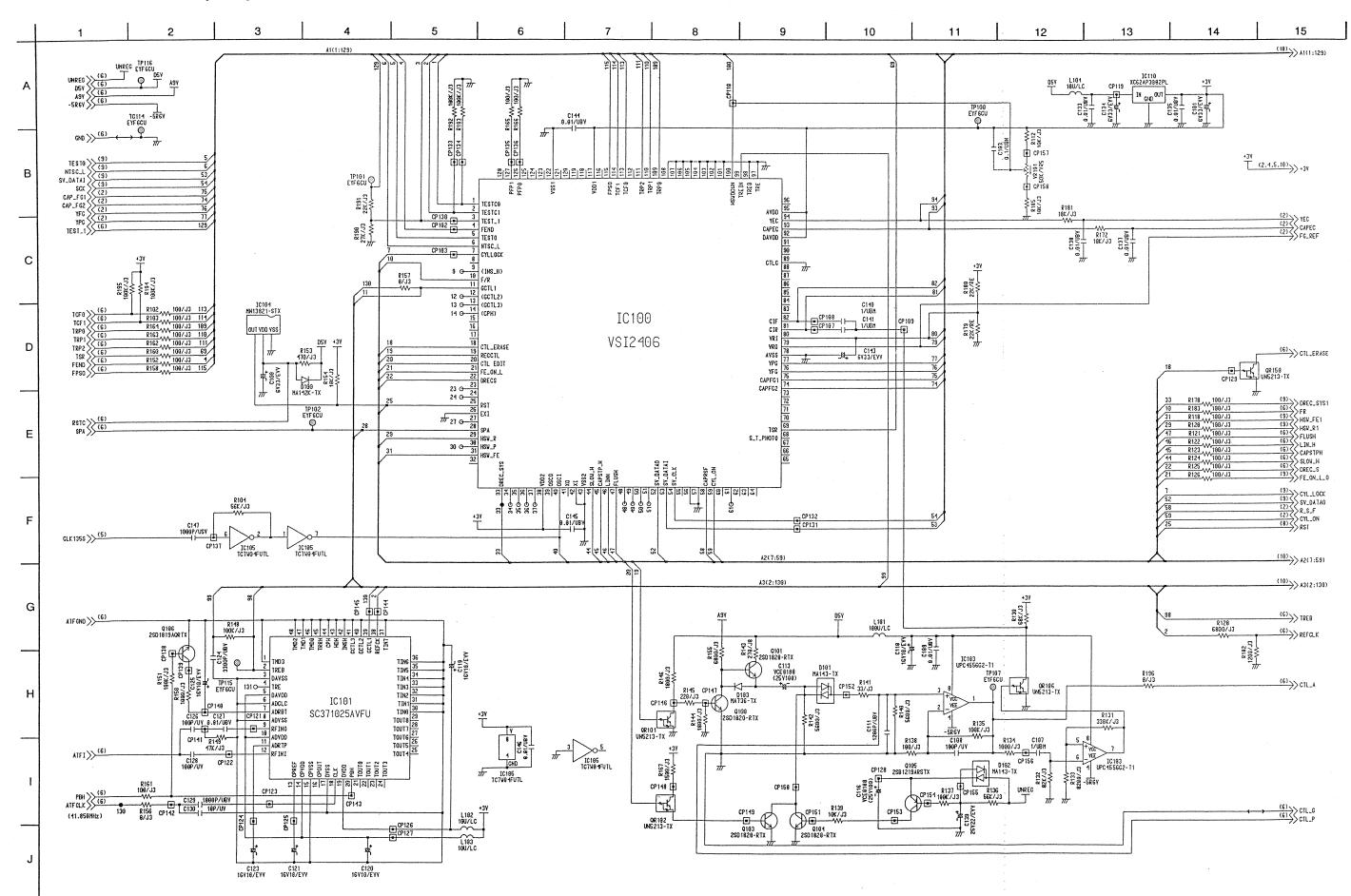
I/F-1 (18/19) SCHEMATIC DIAGRAM



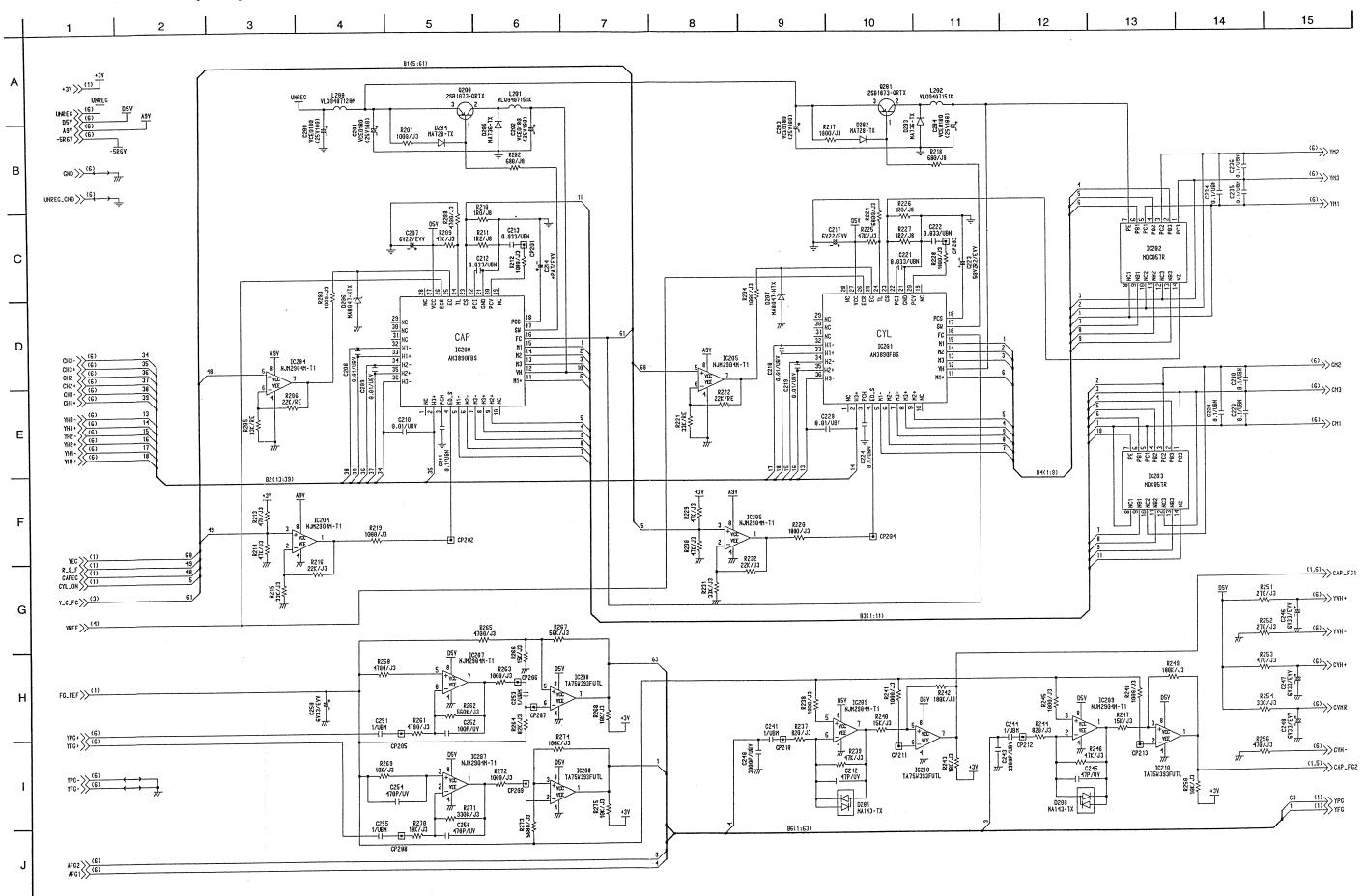
I/F-2 (19/19) SCHEMATIC DIAGRAM

Д	1 2 3 4	4 5 6	7 8 9	10 11 1:	2 13 14 15
A	VLF1315A182T X 7	AMB LCOM. P8 V.S34850614 1 GND 2 (ANB.SV (177) STS.CAM.CAT STS.CAM.CAT (177) CP1217 STS.CAM.CAT (177) CP1218 STS.CAM.CAT (177) CP1218 STS.CAM.CAT (177) CP1219 TOWN (180) CP1228 STS.CAM.CAT (177) CP1219 TOWN (180) CP1228 TOWN (180) CP1222 TOWN RXD (160) CP1223 TOWN TOWN	FF. SW (**17,18)	C125 47P/UV *PAT/UV C127 *PAT/UV *PAT/UV C127 *PAT/UV *PAT/UV PAT/UV C128 *PAT/UV *PAT/UV PAT/UV PAT/UN PAT	ON \$REF\$ NTSC PAL ON 12P/UV L40 39U/LA *PAT/LA 39U/LA 3P/UV L40 39U/LA *PAT/LA 32U/LA 3P/UV L1001 VLF1315A102T *PAT VLF1315A102T 5P/UV L1002 VLF1315A102T *PAT VLF1315A102T 0.1/UFV L1003 VLF1315A102T *PAT VLF1315A102T 0.1/UFV L1013 0/J3 VLF1149A182T VLF1149A182T 0.1/UFV L1013 0/J3 VLF1149A182T VLF1149A182T 21P/UV L1015 0/J3 VLF1149A182T VLF1149A182T 5P/UV L1016 0/J3 VLF1149A182T VLF1149A182T 0.1/UFV L1017 0/J3 VLF1149A182T VLF1149A182T 15P/UV L1018 0/J3 VLF1149A182T VLF1149A182T 15P/UV L1019 0/J3 VLF1149A182T VLF1149A182T 15P/UV L1020 0/J8 VLP0147-T VLP0147-T 1
C	R.SIDE P19 Y.P31250018	REAR JACK P1221 P P112 P P123	F_MIC_DLH < (12)	C181 10P/UV *PAT/UV	NYIO/EVV O18
E		CHE	ANTON_RM (17) (P1268 1 1288 2 (P1253 1	ANTON \$REF\$ NTSC PAL	ON \$REF\$ NTSC PAL ON 0.17/JFV R117 0/J3 *PAT/J3 0/J3 0.17/JFV R118 0/J3 *PAT/J3 0/J3 0.17/JFV R118 0/J3 *PAT/J3 0/J3 0.17/JFV R135 *PAT/J3 *PAT/J3 1000/J3 00P/USV R136 1000/J3 *PAT/J3 1000/J3 01/JFV R137 1000/J3 *PAT/J3 1000/J3 01/JFV R138 *PAT/J3 *PAT/J3 0/J3 00P/USV R139 *PAT/J3 *PAT/J3 0/J3 67330 R142 *PAT/J3 *PAT/J3 0/J3 0CK0152 R143 *PAT/J3 *PAT/J3 0/J3
F —	\$REF\$ NTSC PAL ON \$REF\$ NTSC R229 *PAT/J3 *PAT/J3 0/J3 R3012 *PAT/J3	CH1_DLC (12)		C57 0.01/UBV ePAT/UBV 0 C58 6V47/EVV ePAT/EVV 6 C59 0.01/UBV ePAT/UBV 0 C60 VCK0151 ePAT V C6048 ePAT/UV ePA	01/UBV R146
G H	R230 +PAT/J3 47/J3 47/J3 R310 +PAT/RE7 R231 +PAT/J3 47/J3 R3211 +PAT/RE7 R233 1200/RE7 1000/RE7 1200/RE7 R3221 +PAT/J3 R237 4700/J3 +PAT/J3 4700/J3 R3264 +PAT/J3 R239 6800/J3 0/J3 83293 +PAT/J3 R247 +PAT/RE7 +PAT/RE7 47K/RE7 R3294 +PAT/J3 R248 +PAT/RE7 +PAT/RE7 47K/RE7 R3295 +PAT/J3 R252 +PAT/J3 +PAT/J3 0/J3 R3326 +PAT/J3 R254 +PAT/J3 +PAT/J3 0/J3 R3342 +PAT/J3 R255 +PAT/J3 +PAT/J3 0/J3 R3400 +PAT/J3 R256 22/J3 +PAT/J3 22/J3 R3401 +PAT/J3 R257 6800/J3 +PAT/J3 47/J3 R3402 +PAT/J3 R258 41/J3 +PAT/J3 47/J3 R3403 +PAT/	#PAT/RE7 2200/RE7 R505 *PAT/J3 *PAT/J *PAT/RE7 2200/RE7 R527 *PAT/J3 *PAT/J *PAT/J3 220/J3 R529 *PAT/J3 *PAT/J *PAT/J3 220/J3 R531 0/J3 *PAT/J *PAT/J3 3300/J3 R532 *PAT/J3 *PAT/J *PAT/J3 3300/J3 R532 *PAT/J3 0/J3 *PAT/J3 3300/J3 R545 *PAT/J3 *PAT/J *PAT/J3 3300/J3 R546 *PAT/J3 *PAT/J *PAT/J3 300/J3 R6028 *PAT/J3 *PAT/J *PAT/J3 0/J3 R6028 *PAT/J3 *PAT/J *PAT/J3 15K/J3 R6066 *PAT/J3 *PAT/J *PAT/J3 15K/J3 R6066 *PAT/J3 *PAT/J *PAT/J3 15K/J3 R6066 *PAT/J3 *PAT/J *PAT/J3 15K/J3 R74 *PAT/J3 *PAT/J *PAT/J3 15K/J3 R74 *PAT/J3 *PAT/J *PAT/J3 15K/J3 R74 *PAT/J3 *PAT/J *PAT/J3 15K/J3 R76 *PAT *PAT	J3 47K/J3 VR6 1K/VR5 *PAT/VR5 1K/ J3 0/J3 VR7 *PAT/VR5 *PAT/VR5 1K/ J3 0/J3 VR3 *PAT/VR5 *PAT/VR5 200/ J3 0/J3 UVRT014116250 URT014116250	\text{VR5} \ \begin{array}{cccccccccccccccccccccccccccccccccccc	0P/UV R154 1500/J3 *PAT/J3 1500/J3 OP/UV R155 100/J3 *PAT/J3 1500/J3 OP/UV R155 100/J3 *PAT/J3 100/J3 OI/UBV R157 2700/J3 *PAT/J3 2700/J3 OI/UBV R158 1500/J3 *PAT/J3 2700/J3 OI/UBV R158 1500/J3 *PAT/J3 500/J3 OI/UBV R161 *PAT/J3 *PAT/J3 0/J3 OI/UBV R162 0/J3 *PAT/J3 0/J3 OI/UBV R163 2700/J3 *PAT/J3 0/J3 OI/UBV R164 2200/J3 *PAT/J3 2700/J3 OI/UBV R165 1000/R57 *PAT/R57 1000/R57 F1328-T R166 1000/R57 *PAT/R57 1000/R57 F1328-T R168 *PAT/J3 1000/J3 SF0721F R168 *PAT/J3 100/J3 SF0721F R169 5500/J3 *PAT/J3 100/J3 SF085FUTL R170 2200/J3 *PAT/J3 2200/J3 SF08FUTL R171 2200/J3 *PAT/J3 2200/J3 SF08FUTL R171 2200/J3 *PAT/J3 2200/J3
-	R282 6800/J3 *PAT/J3 6800/J3 R3407 *PAT/J3 R283 47/J3 *PAT/J3 47/J3 R3408 *PAT/J3 R284 10/J3 *PAT/J3 10/J3 R3409 *PAT/J3 R265 68/RE7 *PAT/J3 R3410 *PAT/J3 R266 22/J3 *PAT/J3 R3410 *PAT/J3 R267 6800/J3 *PAT/J3 R3411 *PAT/J3 R268 47/J3 *PAT/J3 6800/J3 R3412 *PAT/J3 R269 10/J3 *PAT/J3 10/J3 R3413 *PAT/J3 R27 *PAT/J3 *PAT/J3 0/J3 R3415 *PAT/J3 R270 *PAT/J3 *PAT/J3 0/J3 R3419 *PAT/J3 R271 22/J3 *PAT/J3 22/J3 R3421 *PAT/J3 R271 22/J3 *PAT/J3 6800/J3 R3421 *PAT/J3 R272 6800/J3 *PAT/J3 6800/J3 R3422 *PAT/J3	*PAT/J3 1500/J3 R81 0/J3 *PAT/J3 *PAT/J3 15K/J3 R84 5600/J3 *PAT/J3 *PAT/J3 15K/J3 R85 5200/J3 *PAT/J3 *PAT/J3 15K/J3 R86 390/J3 *PAT/J3 *PAT/J3 1500/J3 R87 390/J3 *PAT/J3 *PAT/J3 1500/J3 R89 100/J3 *PAT/J3 *PAT/J3 1500/J3 R89 100/J3 *PAT/J3 *PAT/J3 1500/J3 R90 10/J3 *PAT/J3 *PAT/J3 1500/J3 R91 1000/J3 *PAT/J3 *PAT/J3 0/J3 R92 220/J3 *PAT/J3 *PAT/J3 0/J3 R93 820/J3 *PAT/J3 *PAT/J3 0/J3 R94 2200/J3 *PAT/J3 *PAT/J3 1000/J3 R94 2200/J3 *PAT/J3 *PAT/J3 1000/J3 R95 3800/J3 *PAT/J3	J3	103207	
J	R274 10/J3 *PAT/J3 10/J3 R3437 *PAT/J3 R275 *PAT/J3 *PAT/J3 O/J3 R3440 *PAT/J3 R276 68/RE7 *PAT/RE7 68/RE7 R3502 *PAT/J3 R277 O/J3 *PAT/J3 O/J3 R3597 *PAT/J3 R278 O/J3 *PAT/J3 560/J3 R4013 *PAT/J3 R280 470/J3 *PAT/J3 470/J3 R4132 2700/J3 R289 68/RE7 *PAT/J3 470/J3 R4138 0/J3 R290 47/J3 *PAT/J3 220K/J3 R4140 2700/J3 R295 220K/J3 *PAT/J3 220K/J3 R4145 1R5M/J3 R296 10K/J3 *PAT/J3 10K/J3 R4232 2700/J3 R300 *PAT/J3 0/J3 R4238 0/J3	*PAT/J3 0/J3 R97 820/J3 *PAT/J3 *PAT/J3 1000/J3 R98 1000/RE7 *PAT/J8 *PAT/J3 10K/J3 R99 680/J3 *PAT/J8 *PAT/J3 0/J3 TP13 EYF6CU *PAT/J8 *PAT/J3 10K/J3 TP14 EYF6CU *PAT *PAT/J3 2700/J3 TP15 EYF6CU *PAT *PAT/J3 0/J3 TP3 EYF6CU *PAT *2K/J3 2700/J3 TP4 EYF6CU *PAT *100K/J3 1R5M/J3 VC1 *PAT *PAT *10K/J3 2700/J3 VR10 200/VR5 *PAT/J3	J3 820/J3 E7 1000/RE7 J3 680/J3 EYF6CU EYF6CU EYF6CU EYF6CU EYF6CU VVV0045-T R5 200/VRS		

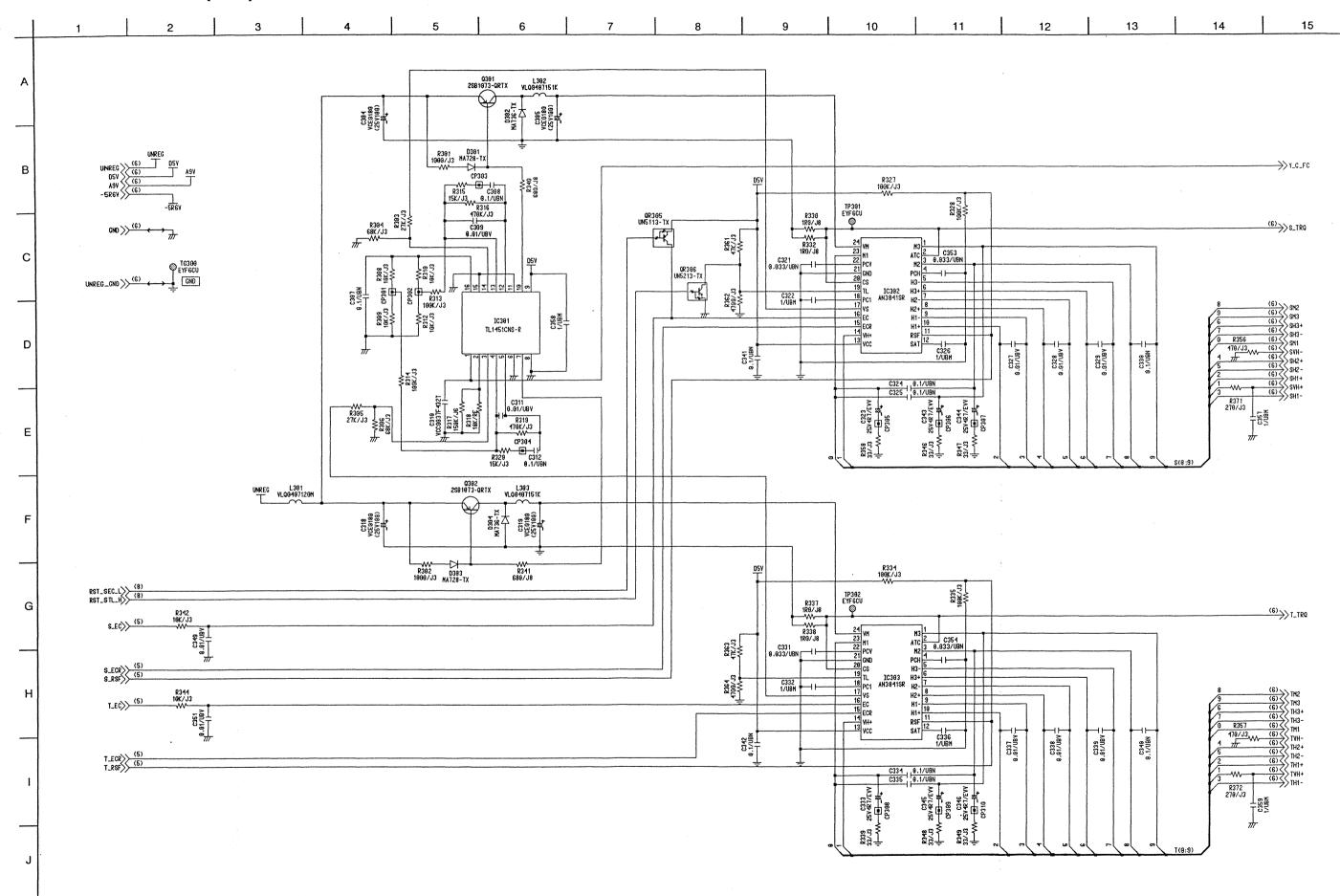
SERVO CONTROL (1/10) SCHEMATIC DIAGRAM



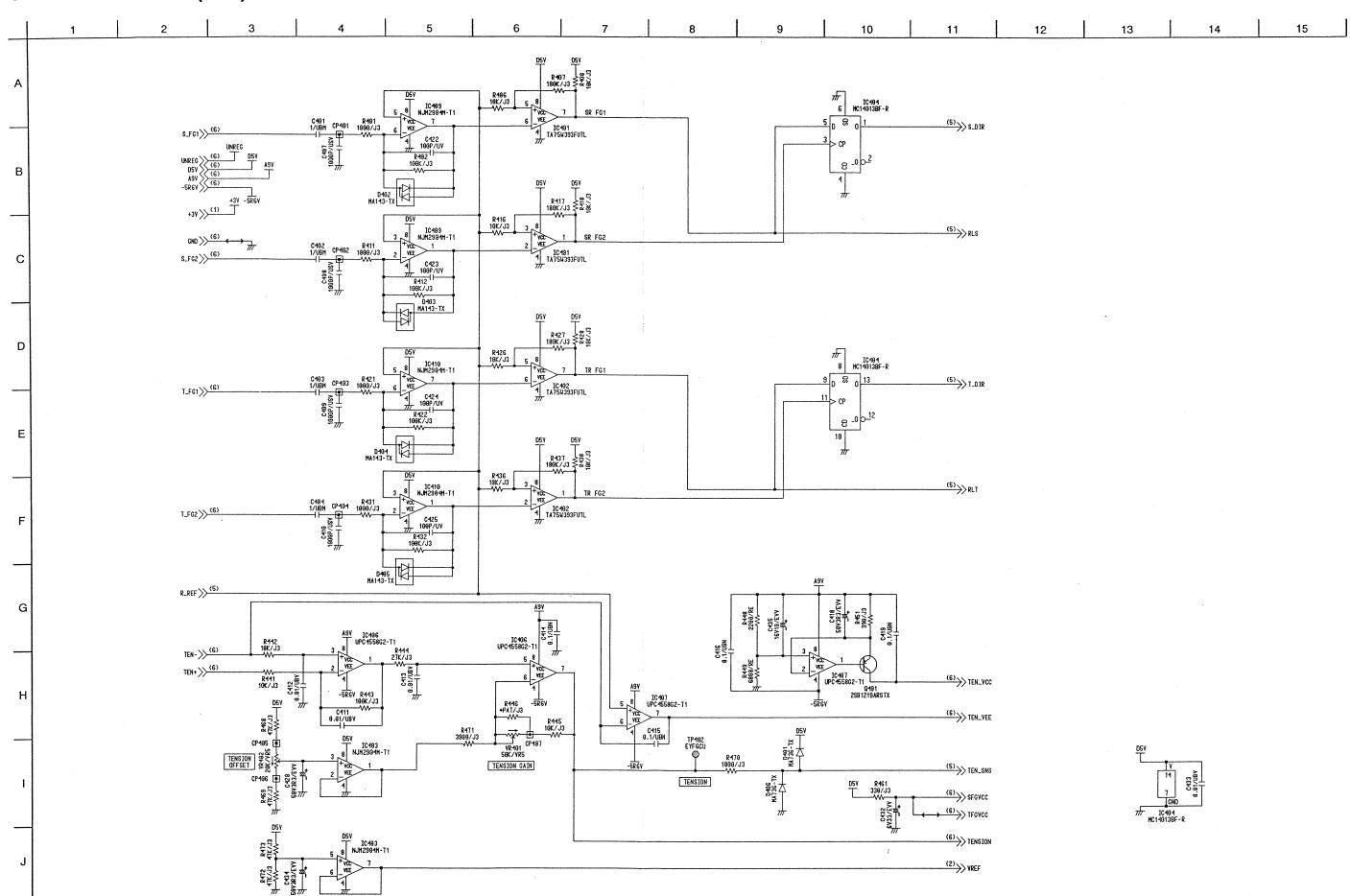
SERVO CONTROL (2/10) SCHEMATIC DIAGRAM



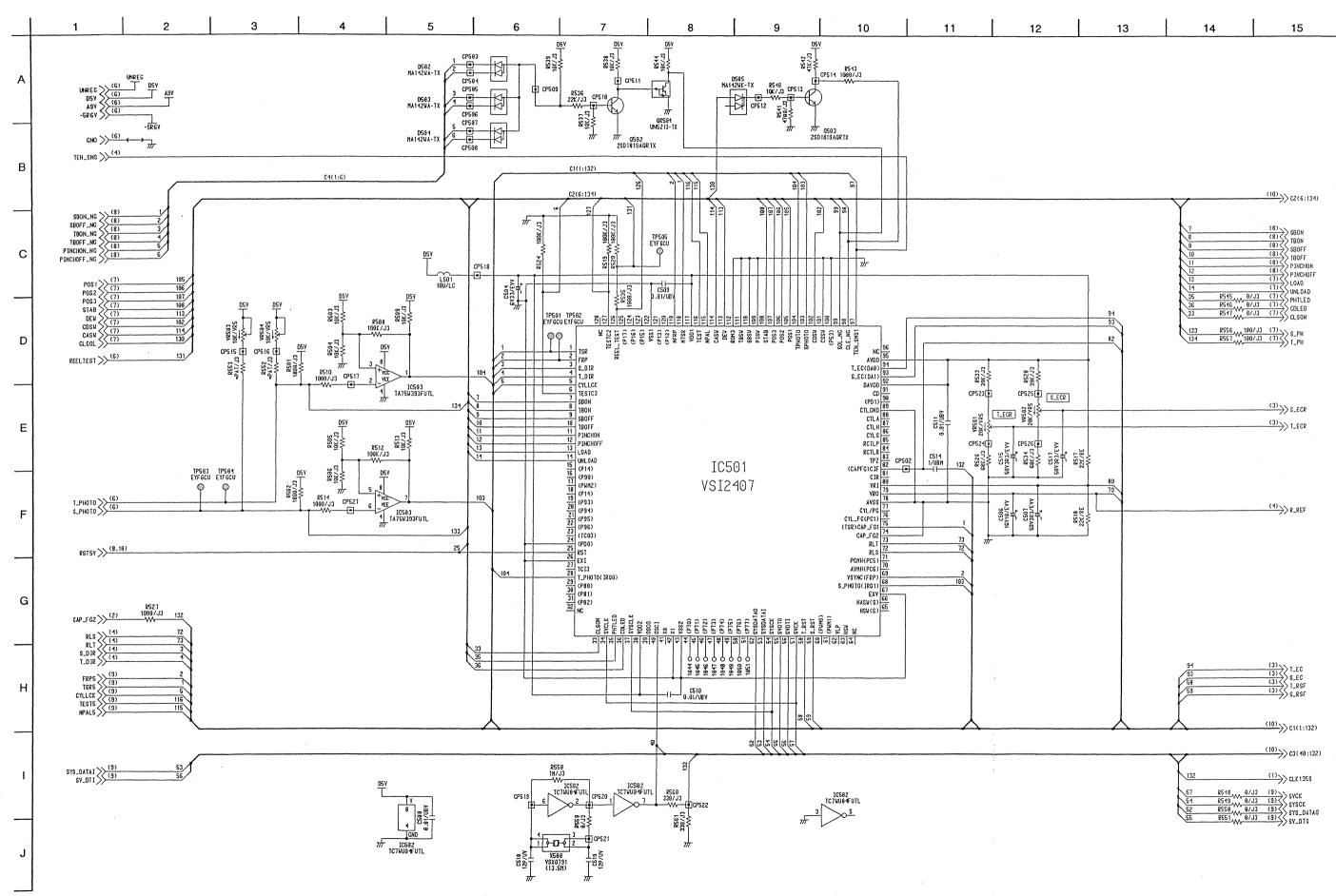
SERVO CONTROL (3/10) SCHEMATIC DIAGRAM



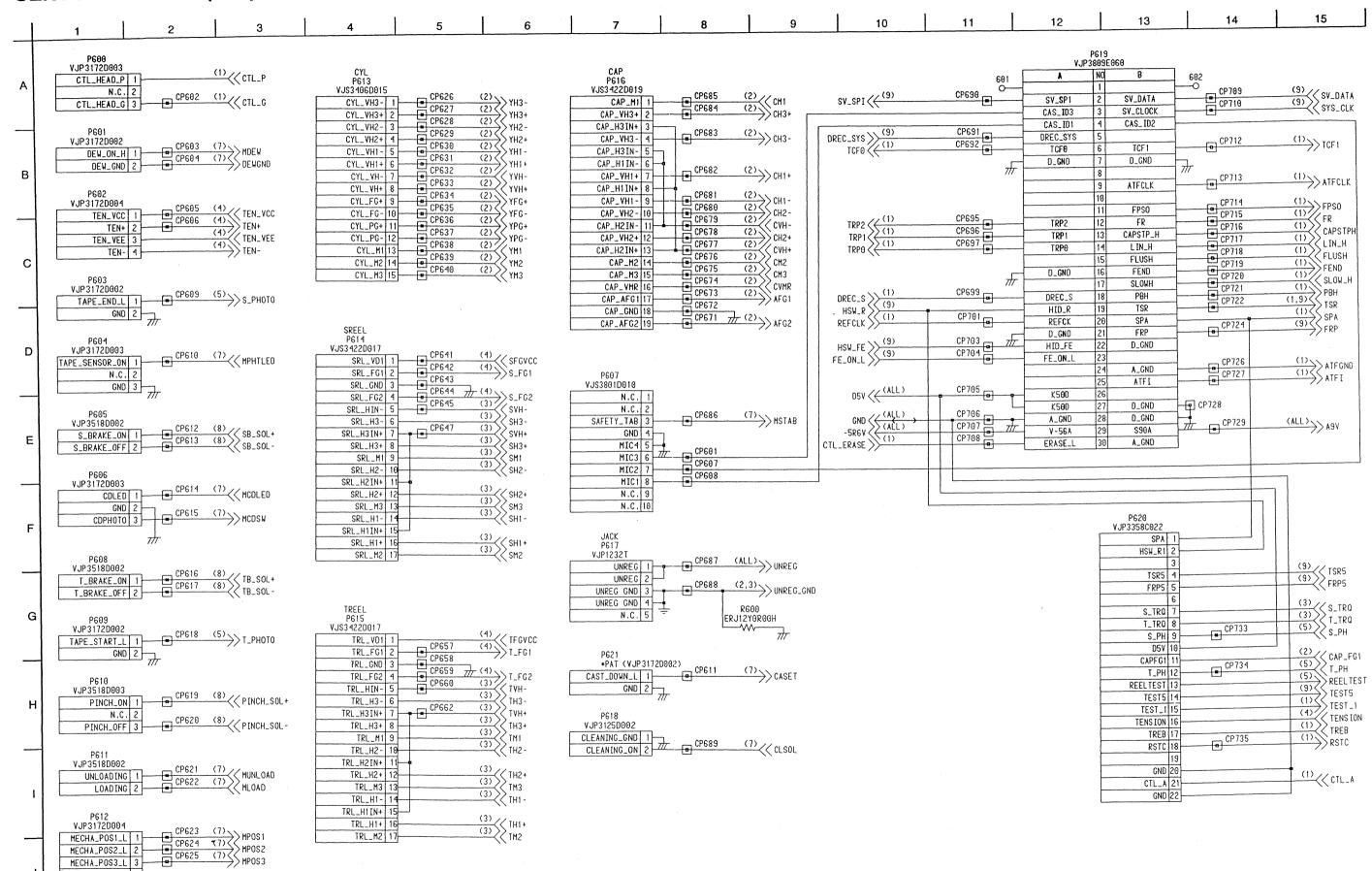
SERVO CONTROL (4/10) SCHEMATIC DIAGRAM



SERVO CONTROL (5/10) SCHEMATIC DIAGRAM

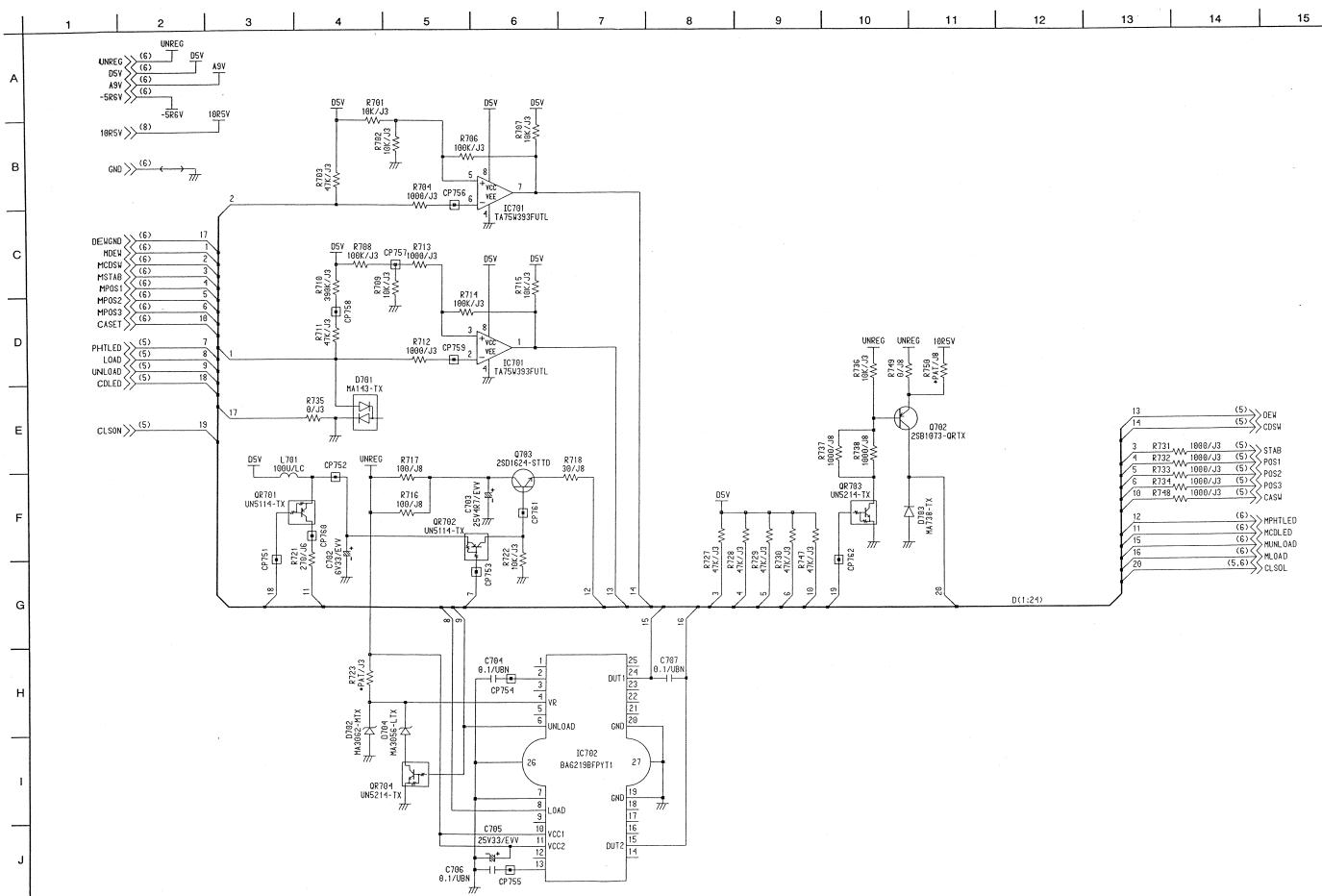


SERVO CONTROL (6/10) SCHEMATIC DIAGRAM



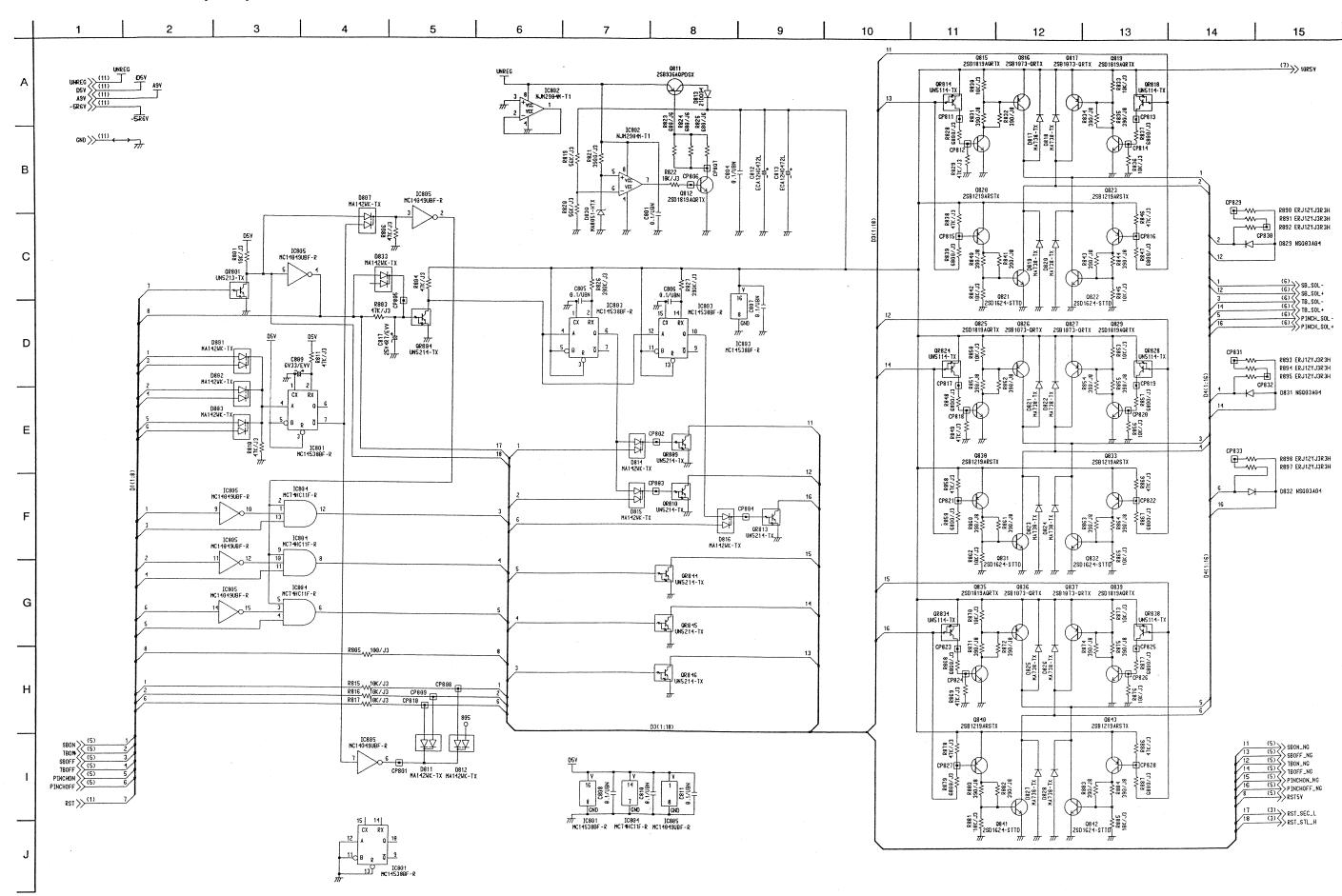
GND 4

SERVO CONTROL (7/10) SCHEMATIC DIAGRAM

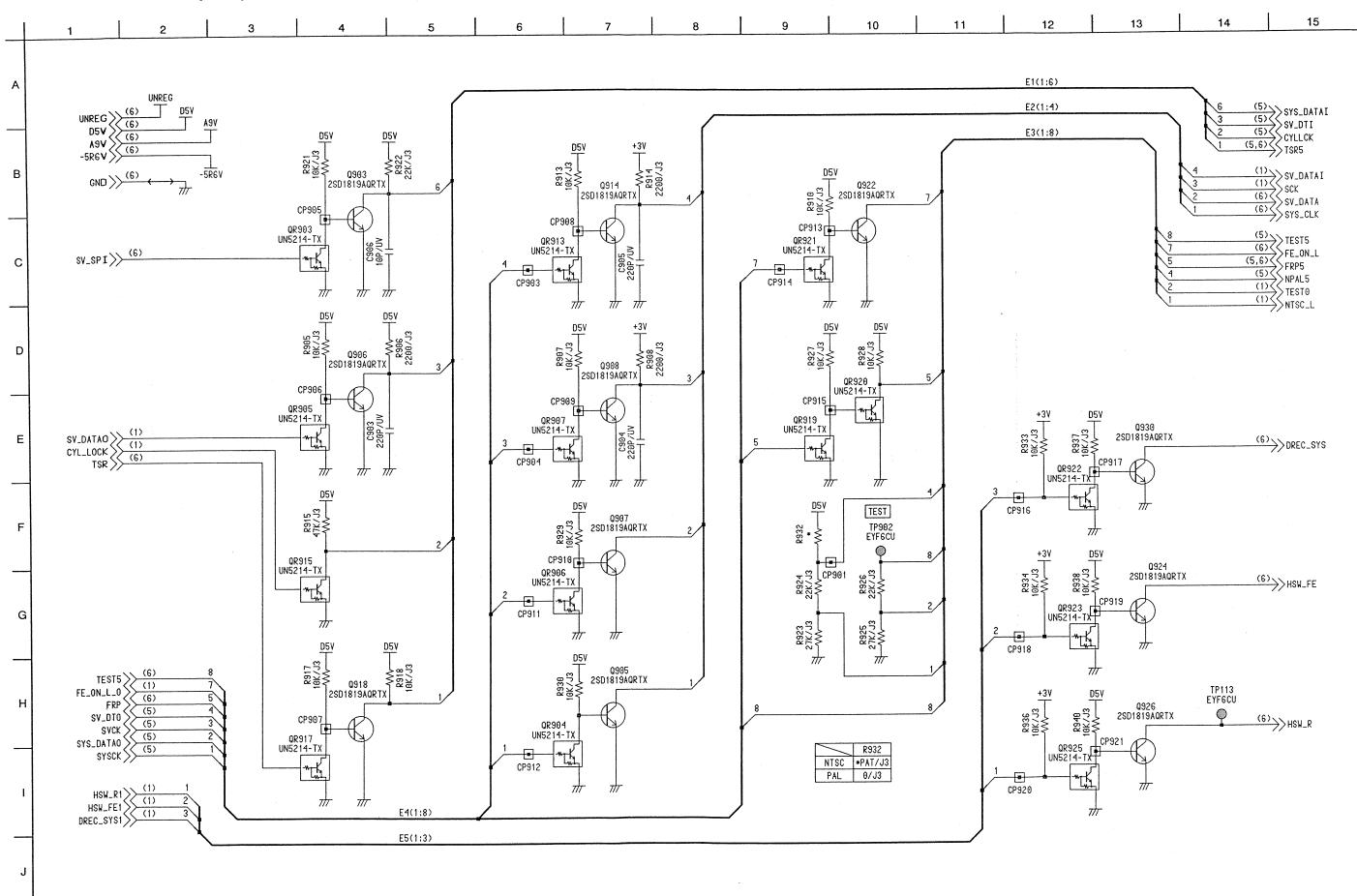


SERVO CONTROL (8/10) SCHEMATIC DIAGRAM

SCM-34

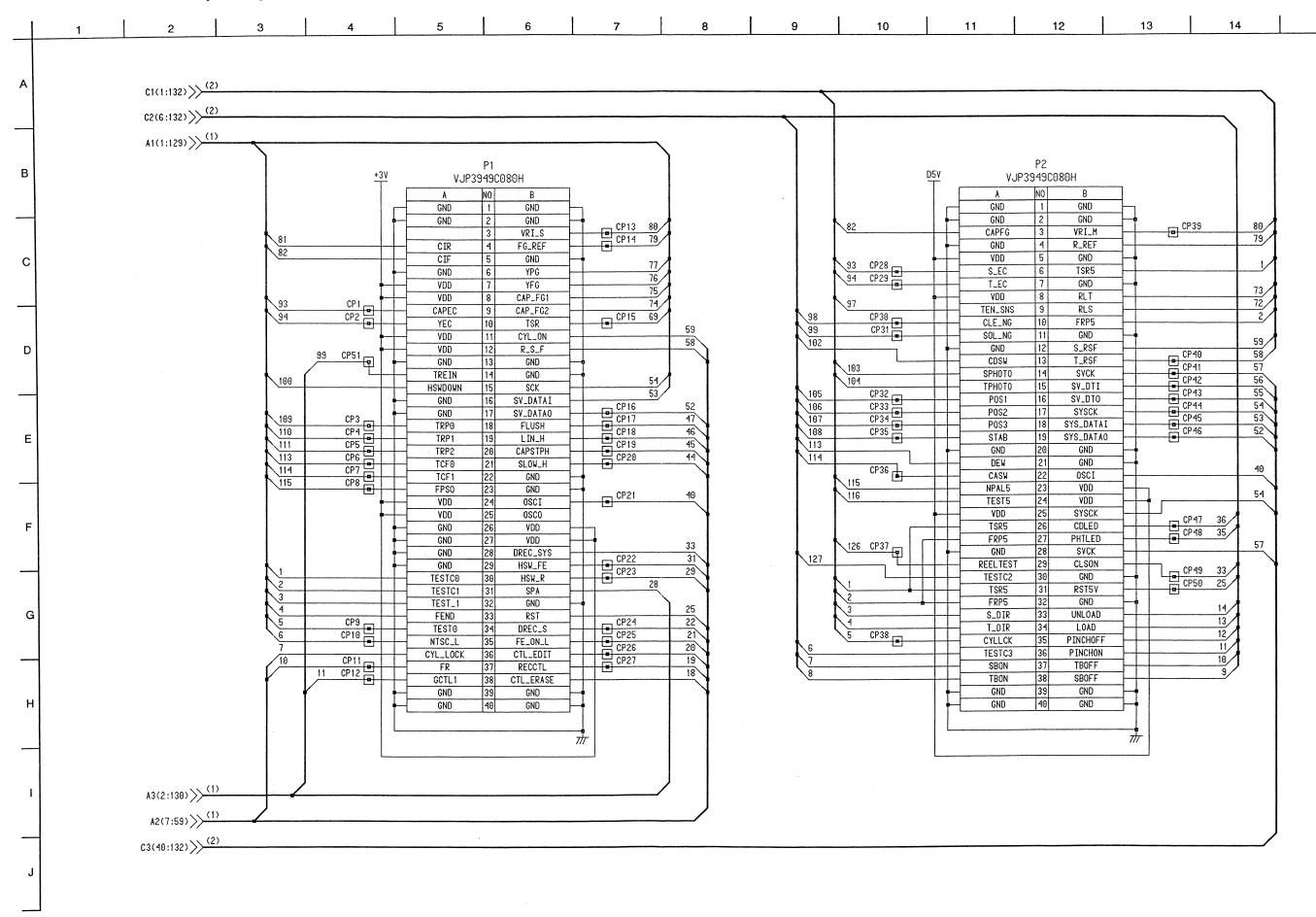


SERVO CONTROL (9/10) SCHEMATIC DIAGRAM

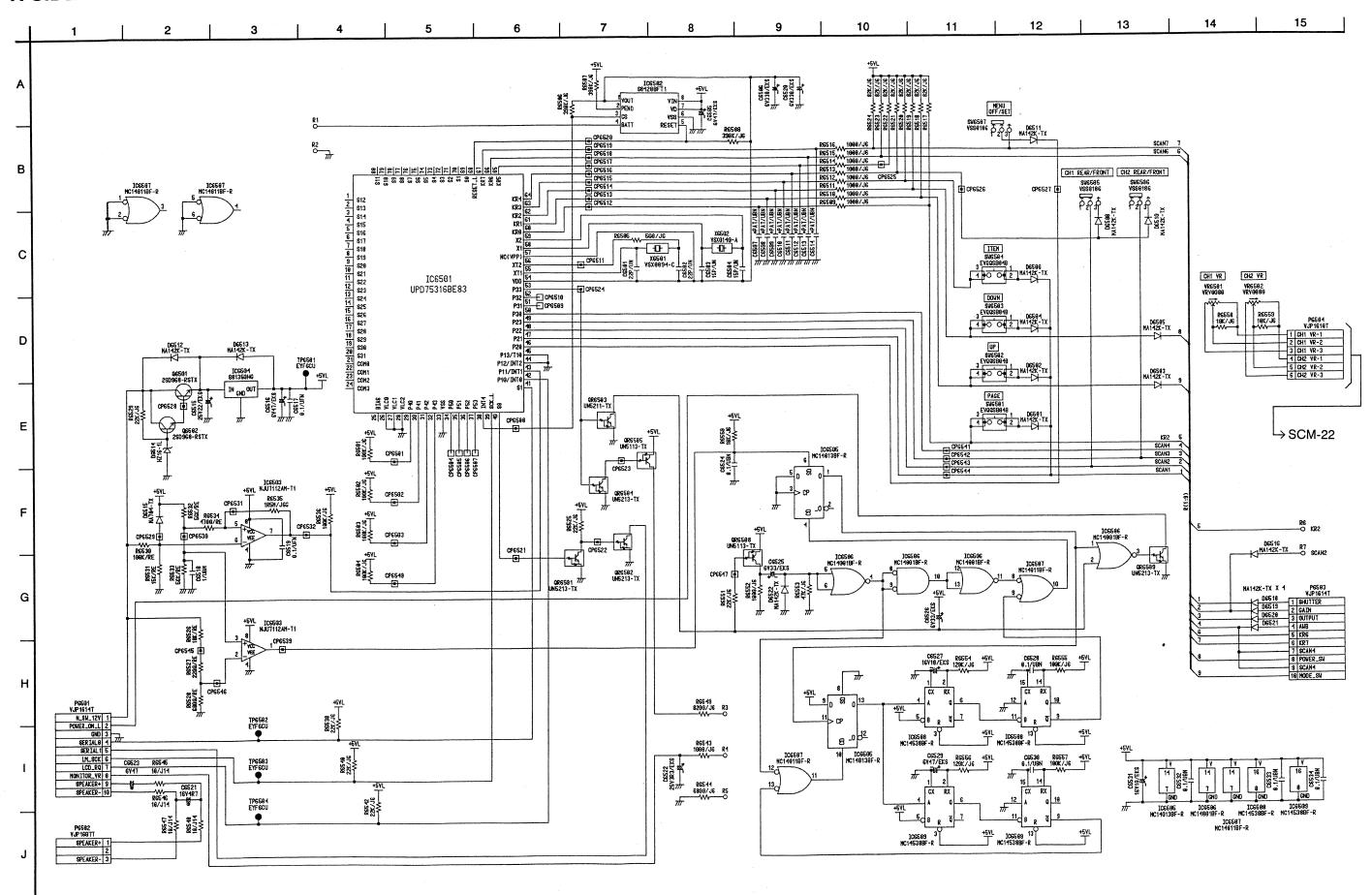


SERVO CONTROL (10/10) SCHEMATIC DIAGRAM

SCM-36

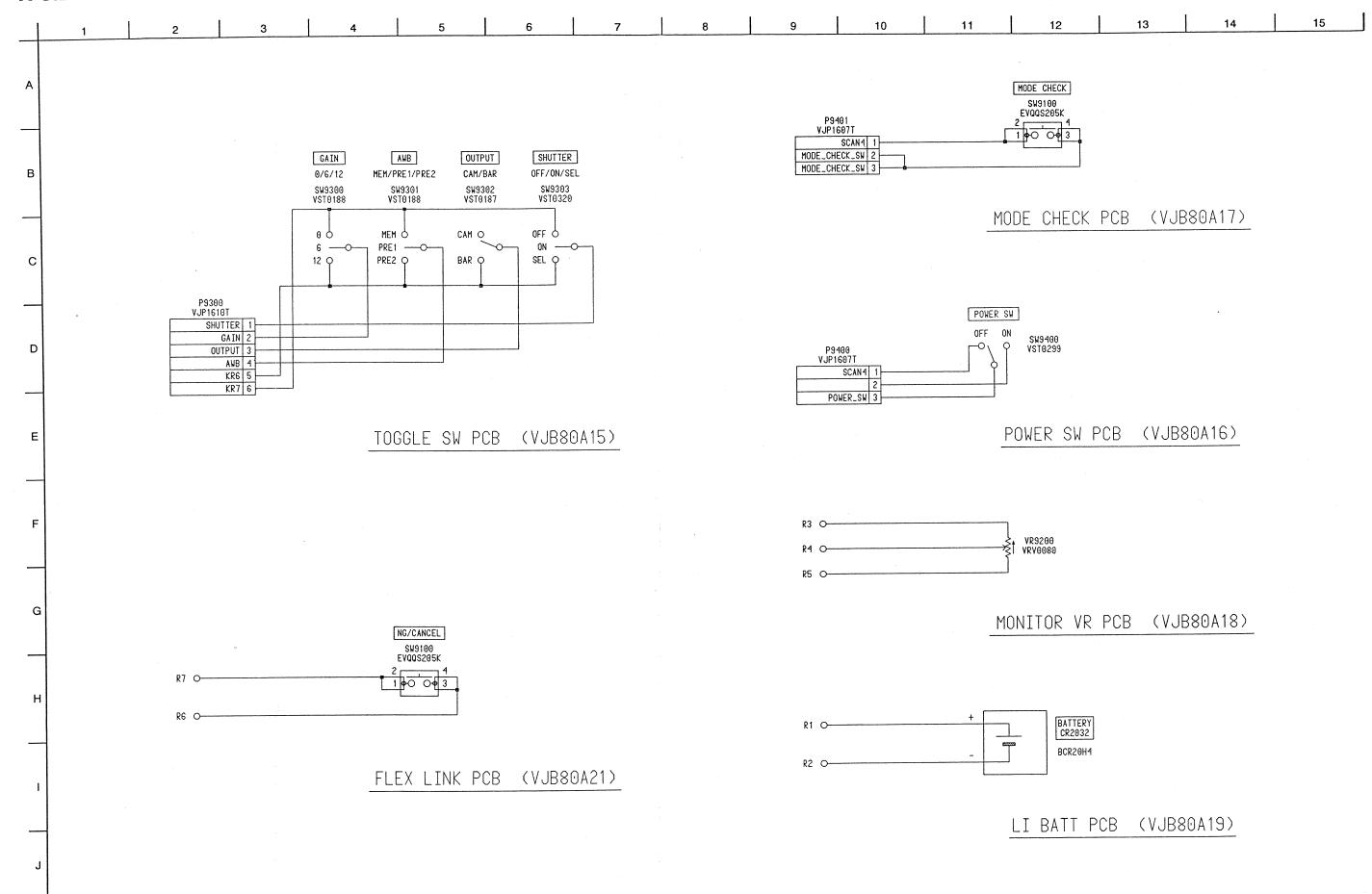


R SIDE MAIN SCHEMATIC DIAGRAM

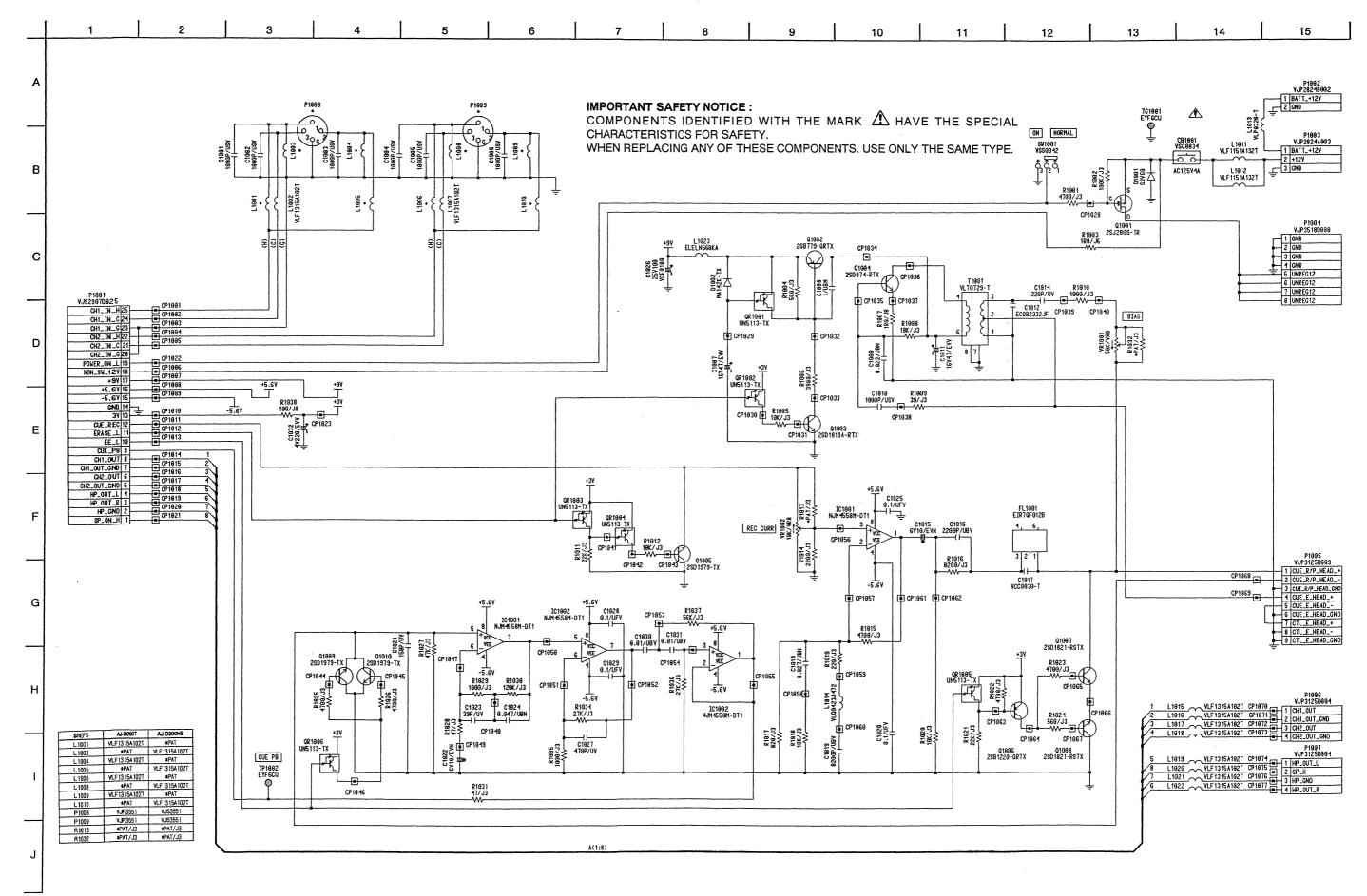


R SIDE SWITCHES SCHEMATIC DIAGRAM

SCM-38

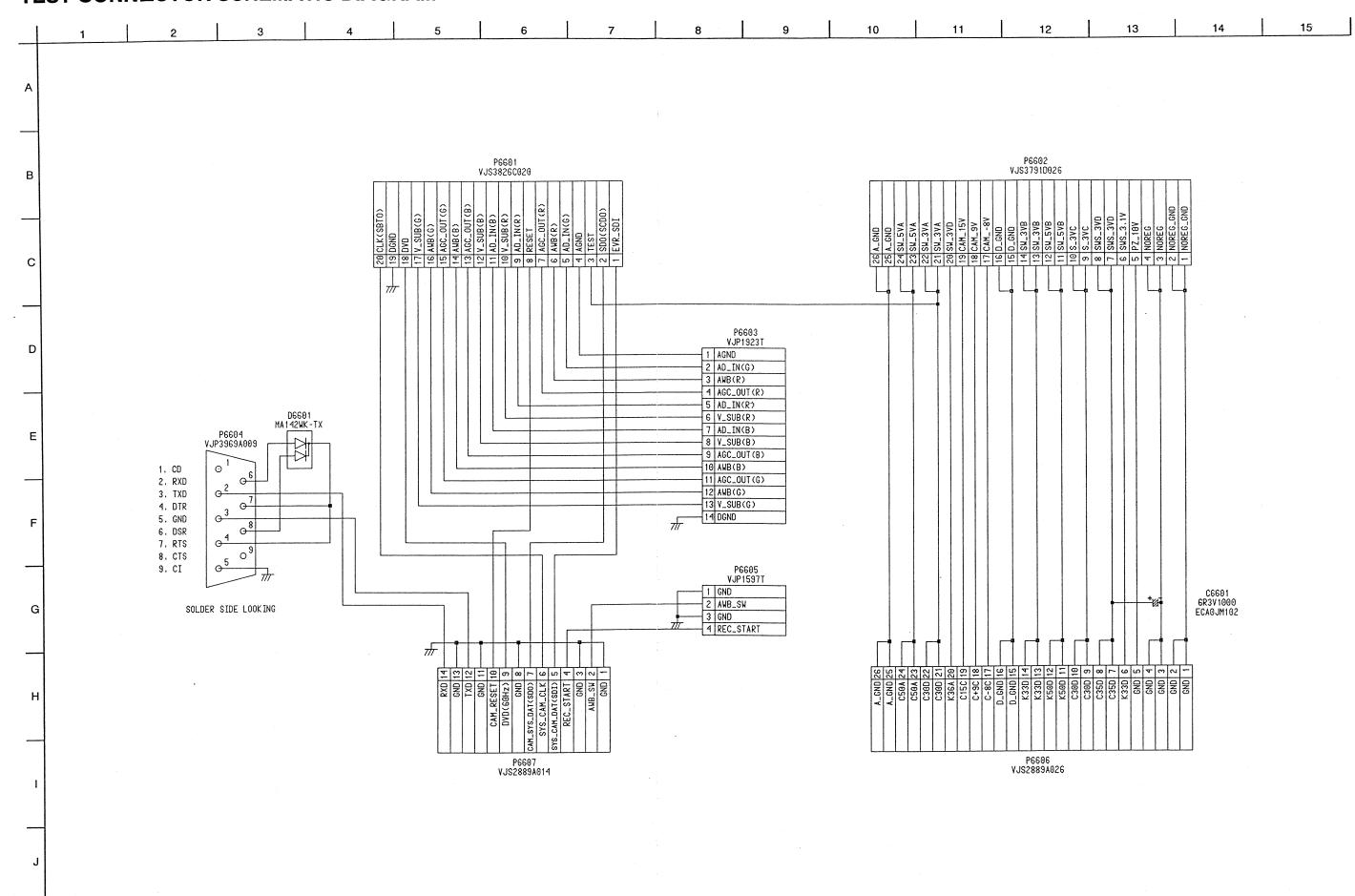


REAR JACK SCHEMATIC DIAGRAM

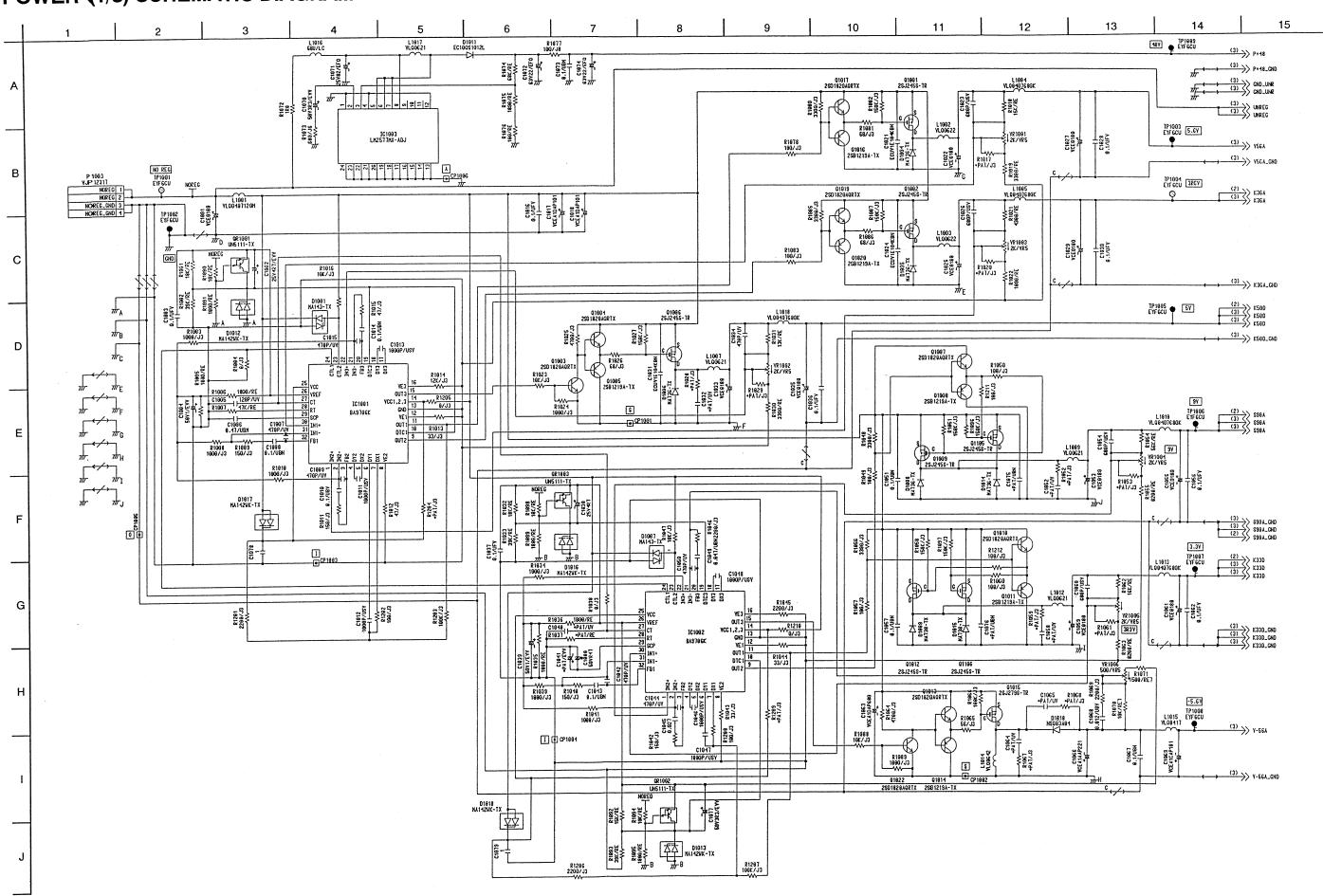


TEST CONNECTOR SCHEMATIC DIAGRAM

SCM-40

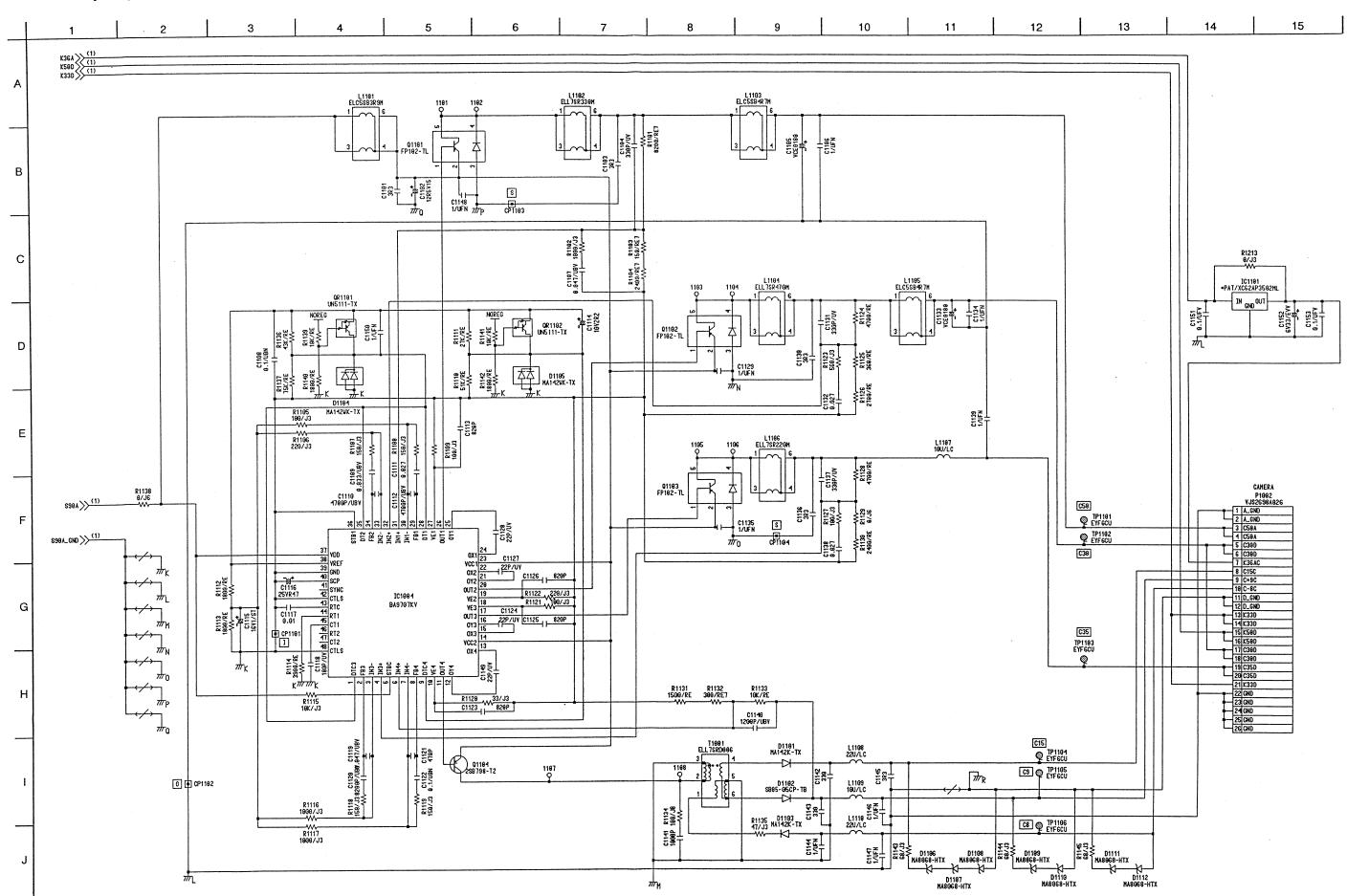


POWER (1/3) SCHEMATIC DIAGRAM



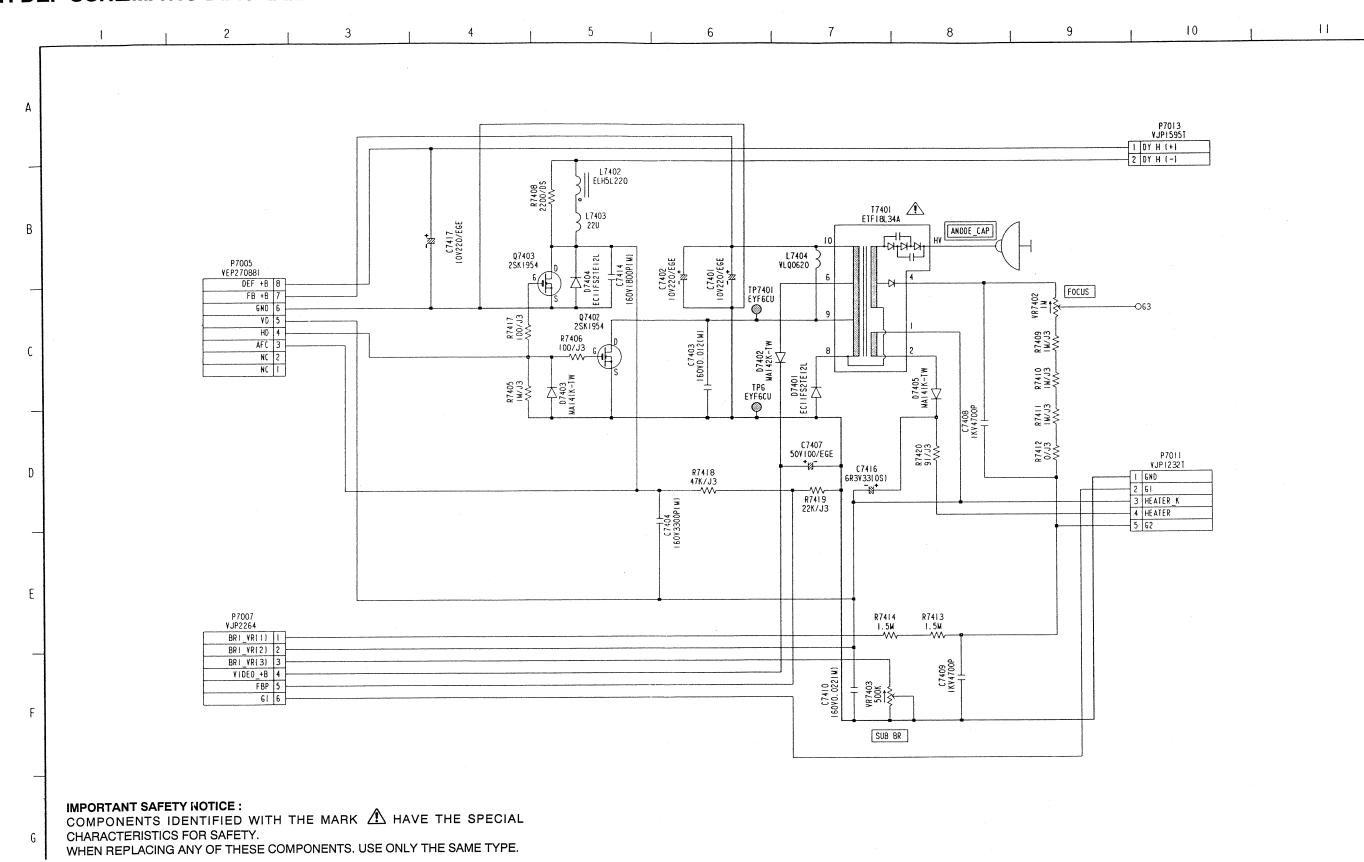
POWER (2/3) SCHEMATIC DIAGRAM

SCM-42



ATW SENSOR SCHEMATIC DIAGRAM POWER (3/3) SCHEMATIC DIAGRAM 12 13 R1 10K/J3 P1001 VJS2889A025 V-56A_GND > 1 V-56A_GND 0.1 V-56A 2 V-56A (1) K33D_GND 3 K33D_GND (1) K33D_GND 4 K33D_GND (1) K33D_GND 5 K33D_GND 0 0 8 7 9 (1) K33D) 6 K33D (1) K33D 7 K33D Q1 UN2212-TX (1) S90A_GND 8 S90A_GND FG1 (1) IC1 S90A_GND 9 S90A_GND (1) M52944FP S90A 10 S90A FG2 (IL-FRP-14S-VF(-E1500)) (1) 11 S90A S90A (1) VJS3452C014 12 K50D_GND FG3 K50D_GND 7/7 (1) 14 ATW VCC K50D_GND 13 K50D_GND - 2 8 F C (1) 13 ATW OUT FG4 K50D 14 K50D (1) 12 GND K50D 15 K50D C2 6V4R7/ST 6V10/ST (1) 11 ATW R/B 16 K36A_GND K36A_GND > (1) 10 FLICK 17 K36A K36A (1) 9 NC V56A_GND 18 V56A_GND 7 7// 7/7 (1) 8 NC 19 V56A V56A (1) 7 NC P+48_GND > 20 P+48_GND (1) 6 NC P+48 21 P+48 (1) 5 NC GND_UNR > 22 GND_UNR (1) 4 NC GND_UNR > 23 GND_UNR UNREG (1) 3 NC 24 UNREG UNREG (1) 2 NC 25 UNREG

H DEF SCHEMATIC DIAGRAM

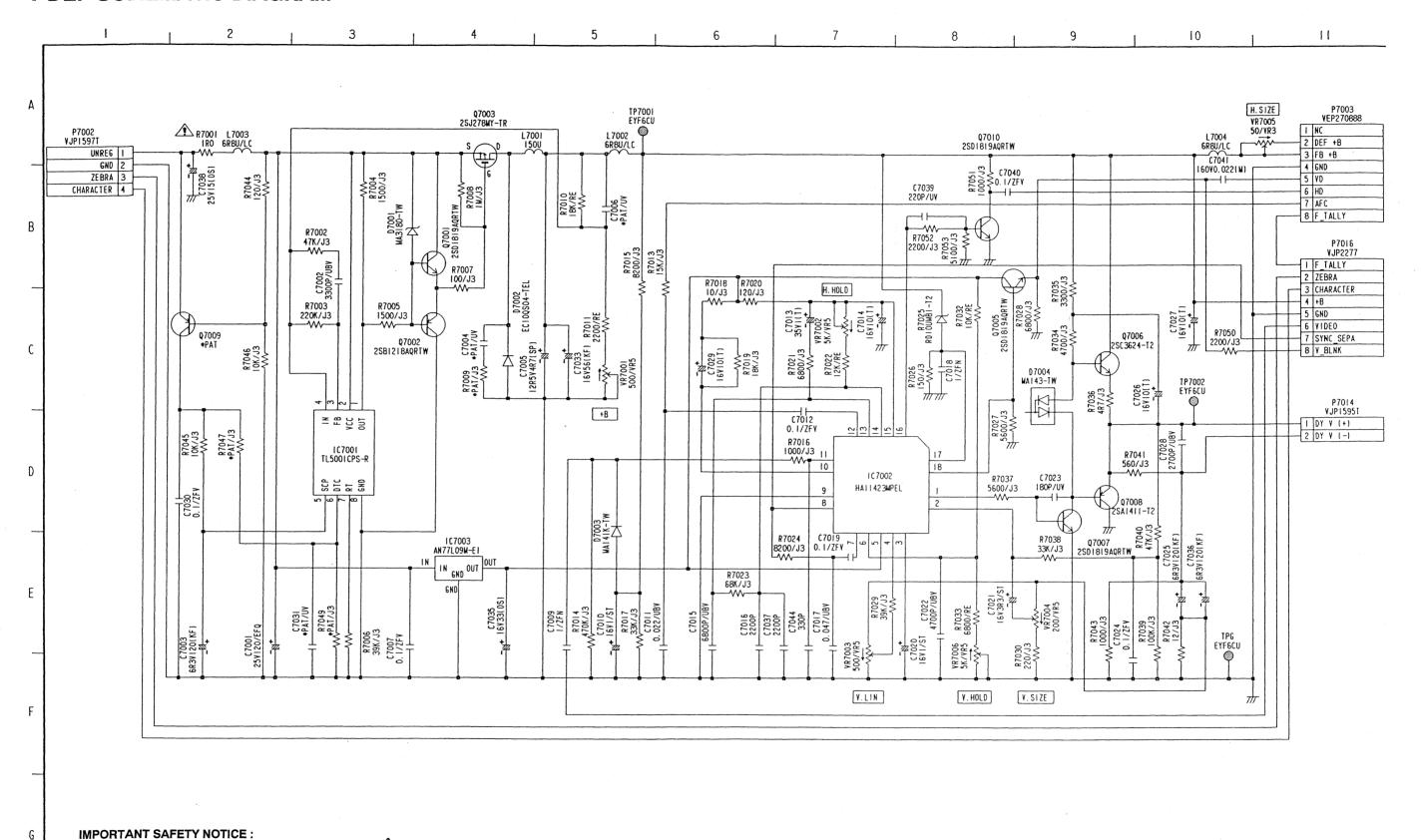


V DEF SCHEMATIC DIAGRAM

COMPONENTS IDENTIFIED WITH THE MARK A HAVE THE SPECIAL

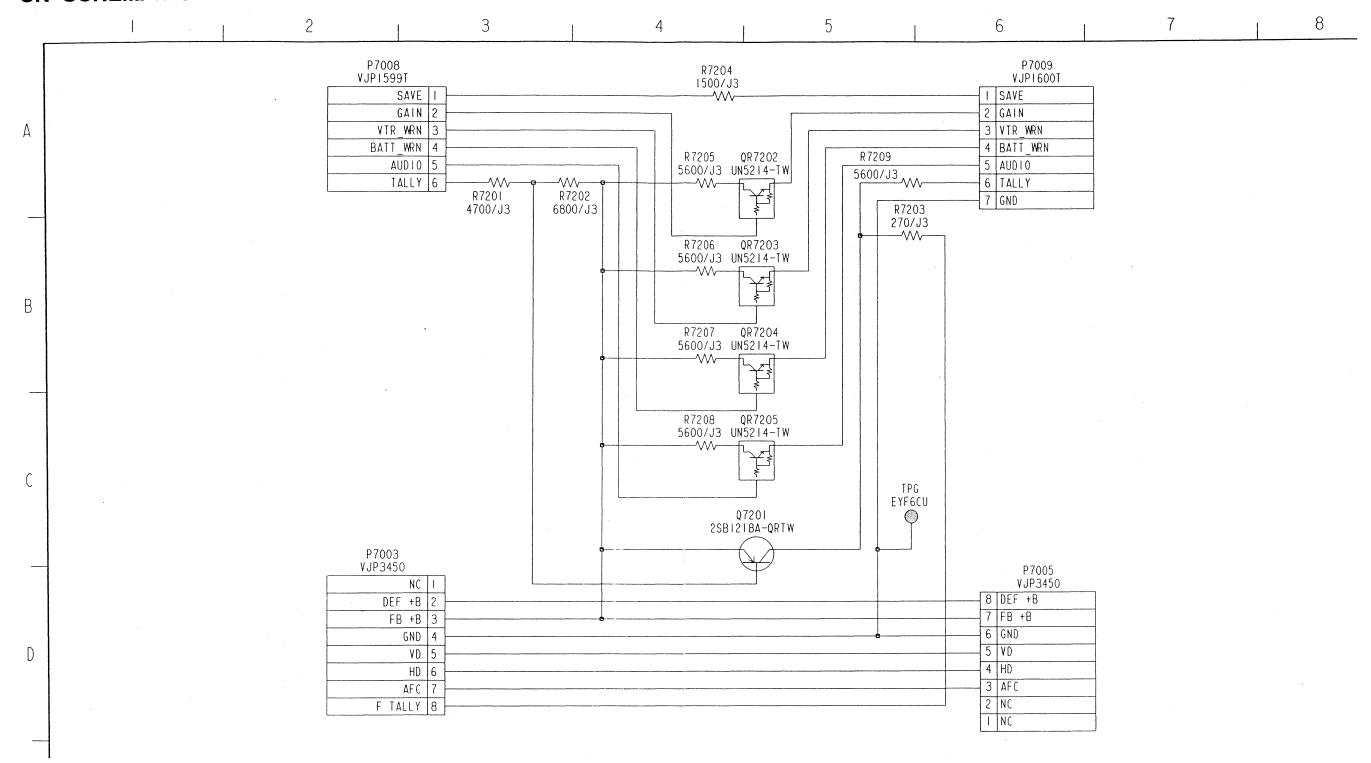
WHEN REPLACING ANY OF THESE COMPONENTS. USE ONLY THE SAME TYPE.

CHARACTERISTICS FOR SAFETY.

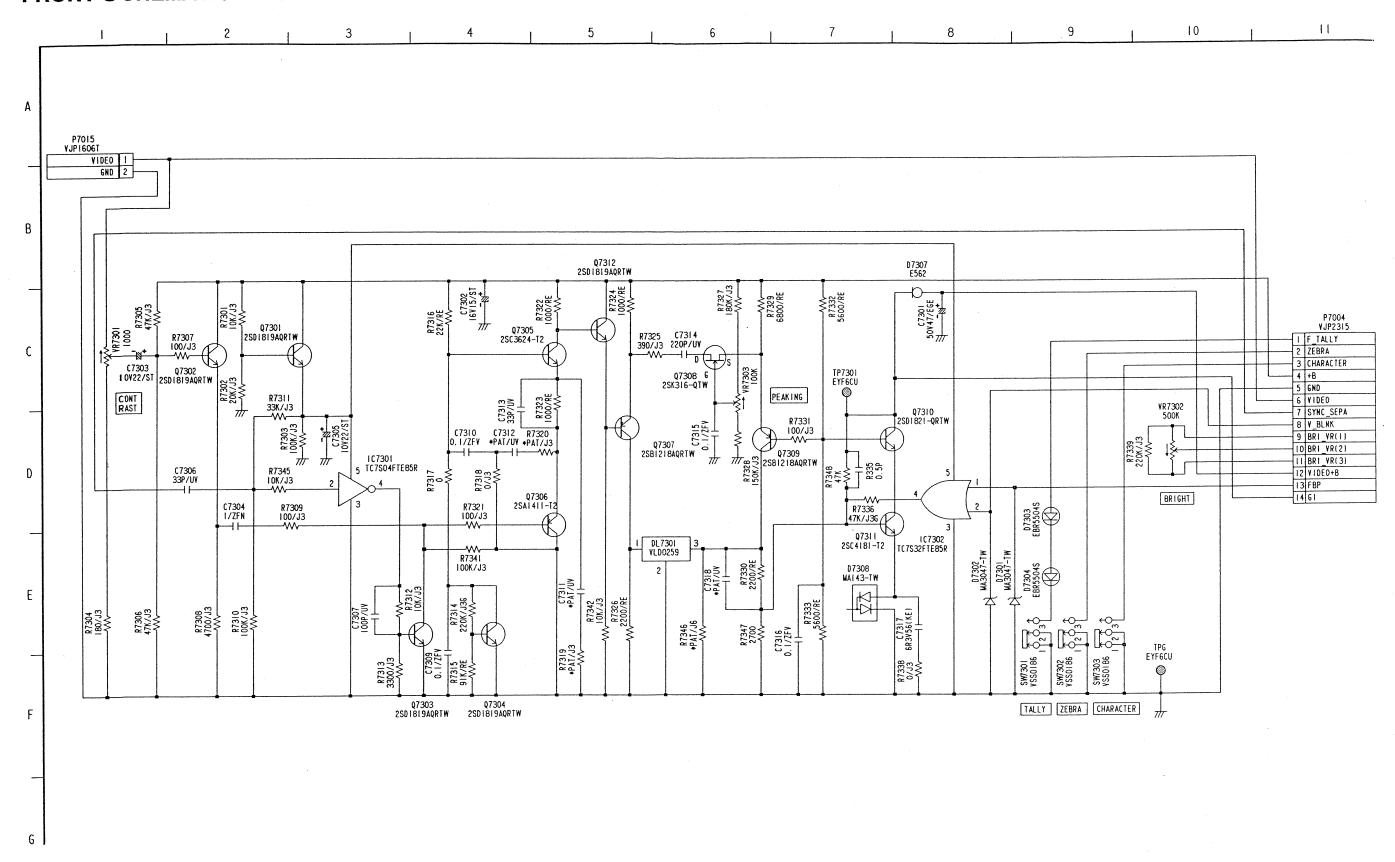


SCM-45

CN SCHEMATIC DIAGRAM

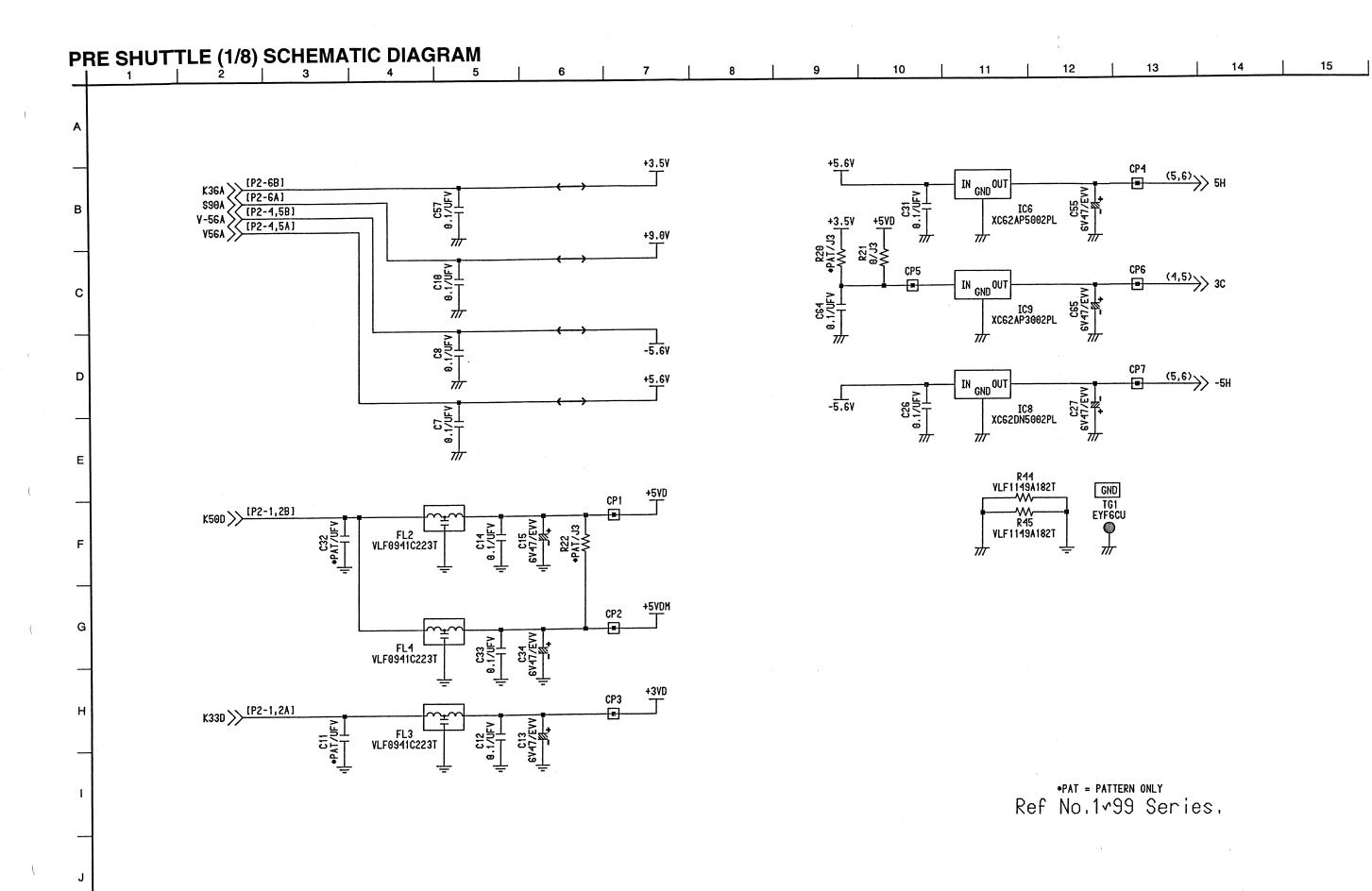


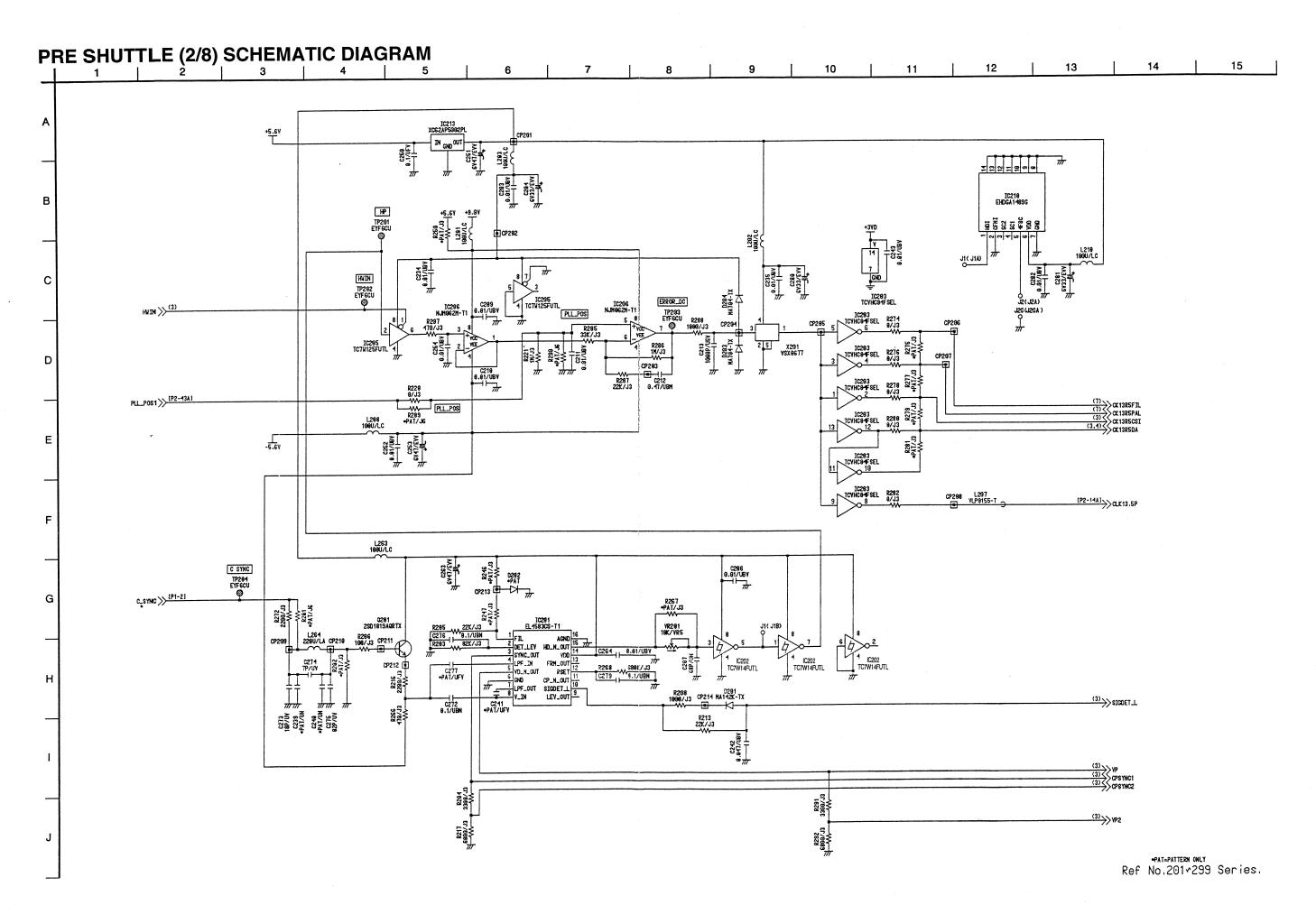
FRONT SCHEMATIC DIAGRAM

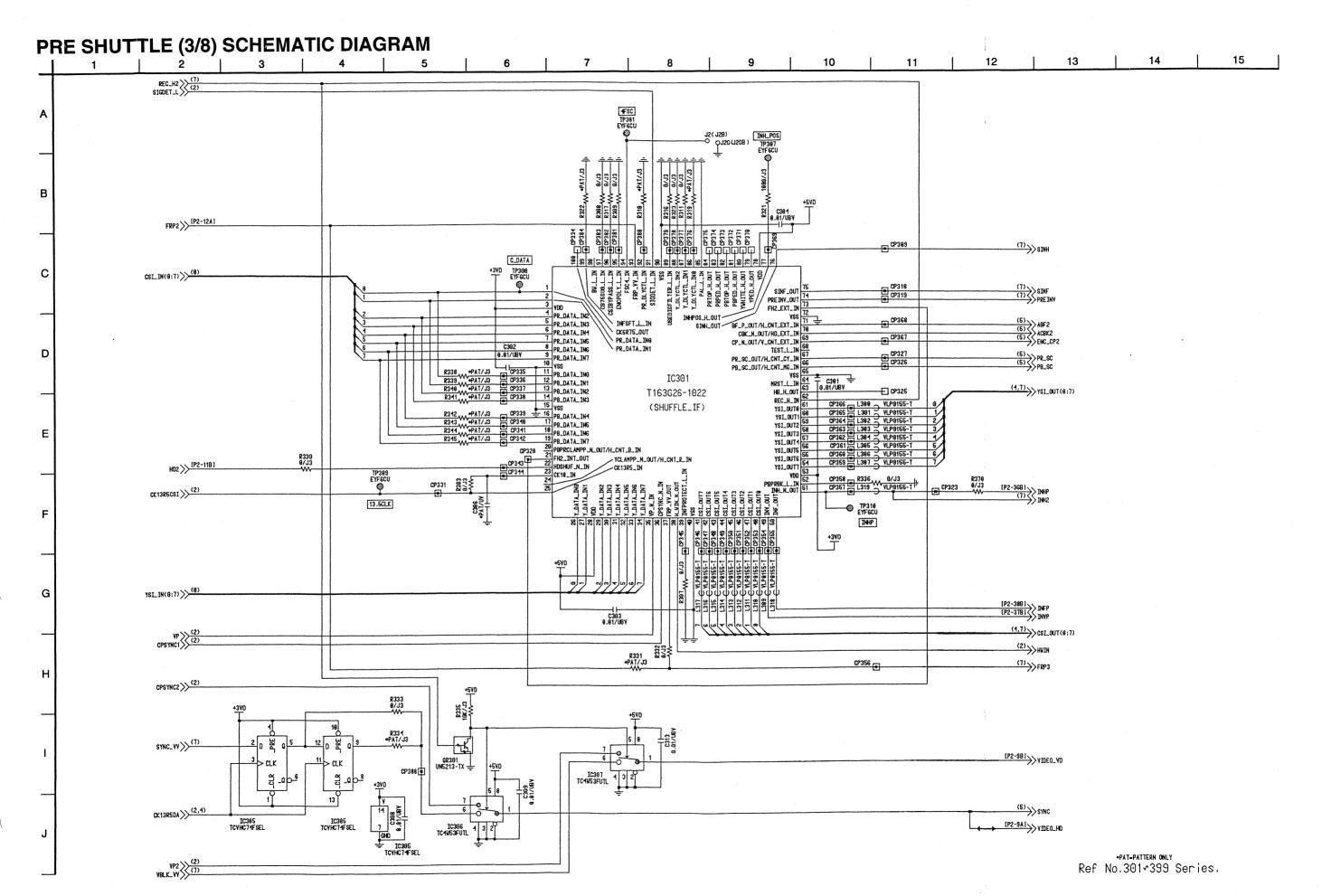


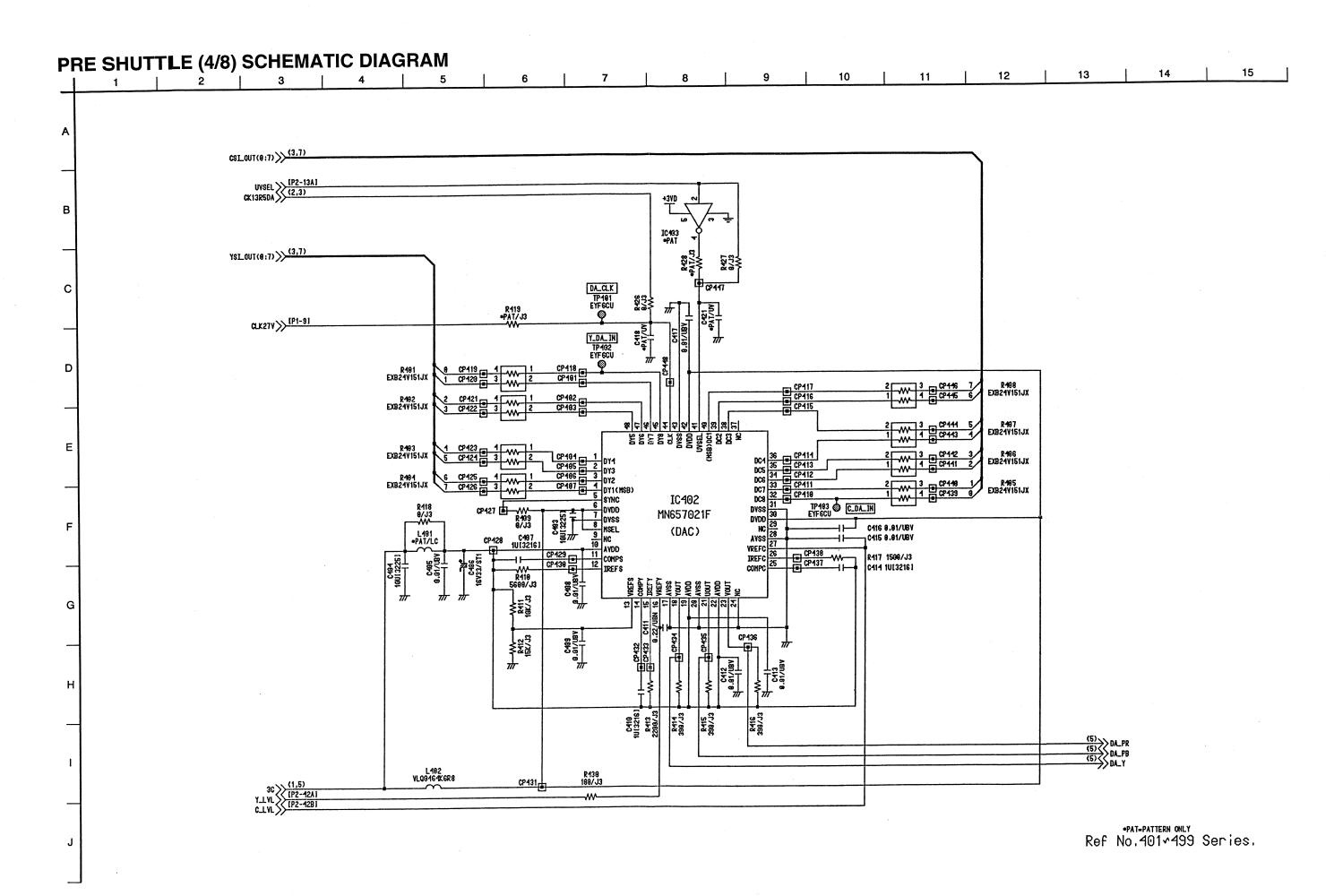
CRT MASK SCHEMATIC DIAGRAM В GAIN 2 O-VIR WRN 3 O-BATT WRN 4 O-AUDIO 5 O-TALLY 6 0-GND 7 0-07503 AY2232S 07502 AY2232S D

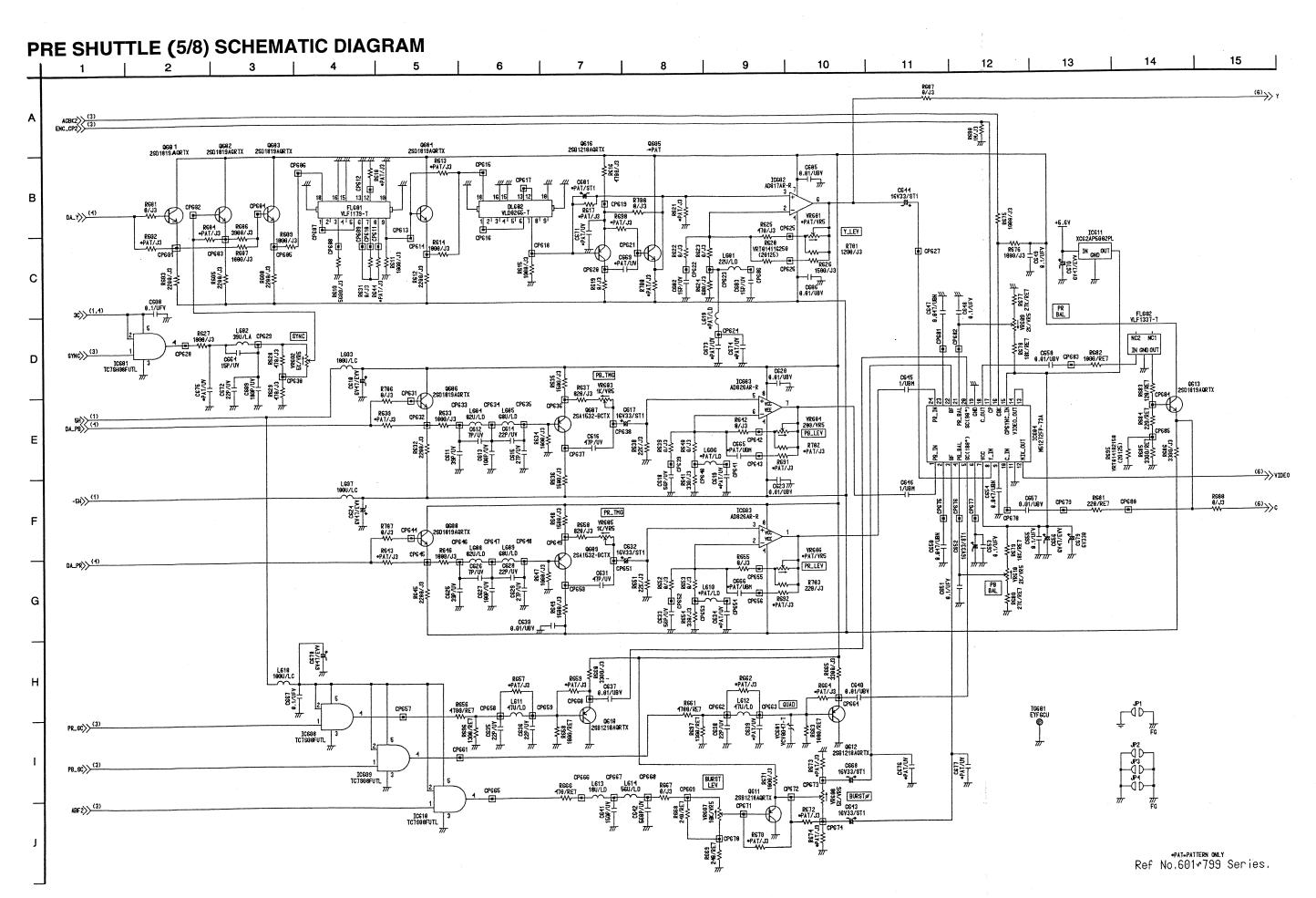
OPERATION SENSOR SCHEMATIC DIAGRAM Д SW6001 EVQPHL03T SW6002 EVQPHL03T P501 VJP3125D010 SW6003 EVQPHL03T PLAY REW SW L | SW6004 EVQPHL03T FF SW L 2 PLAY SW_L 3 SW6005 EVQPHL03T STOP SW L 4 EJECT EJECT SW L 5 GND 6 # 7/7 PLAY LED 7 FF LED 8 REW LED 9 D6001 BR1102W-1-TR BACK TALLY LED 10 D6002 BR1102W-1-TR 110 D6003 BR1102W-1-TR J2 Q 7/7

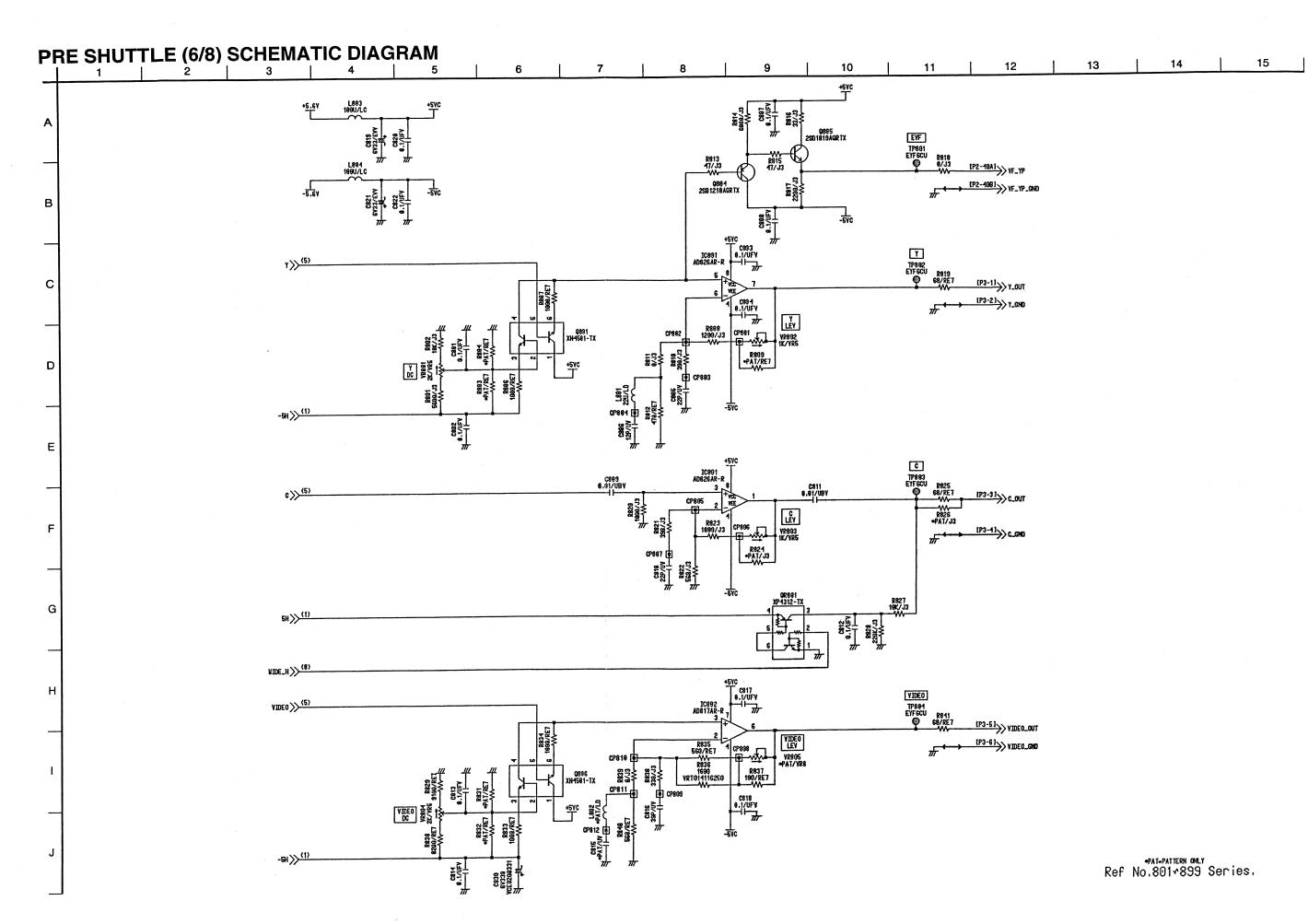


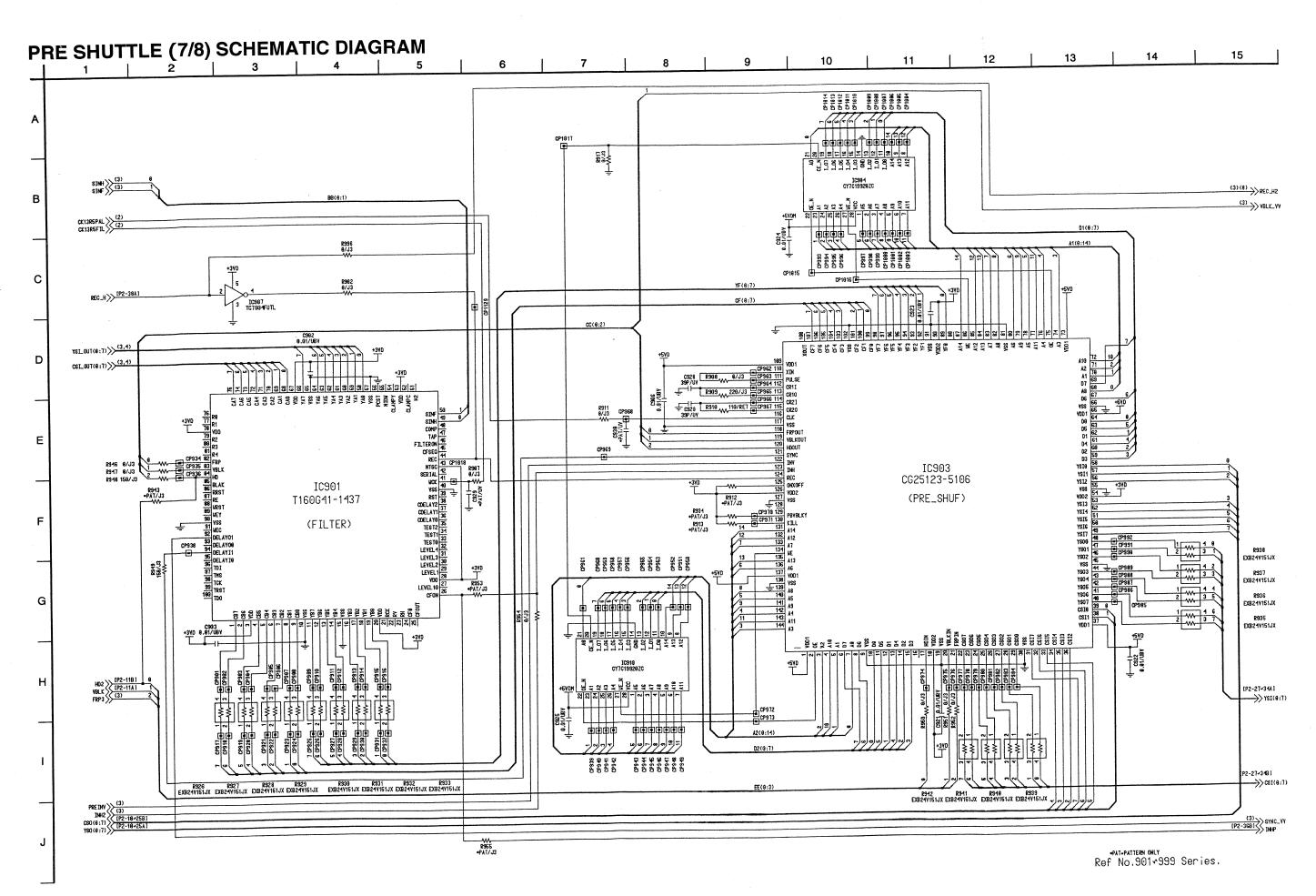


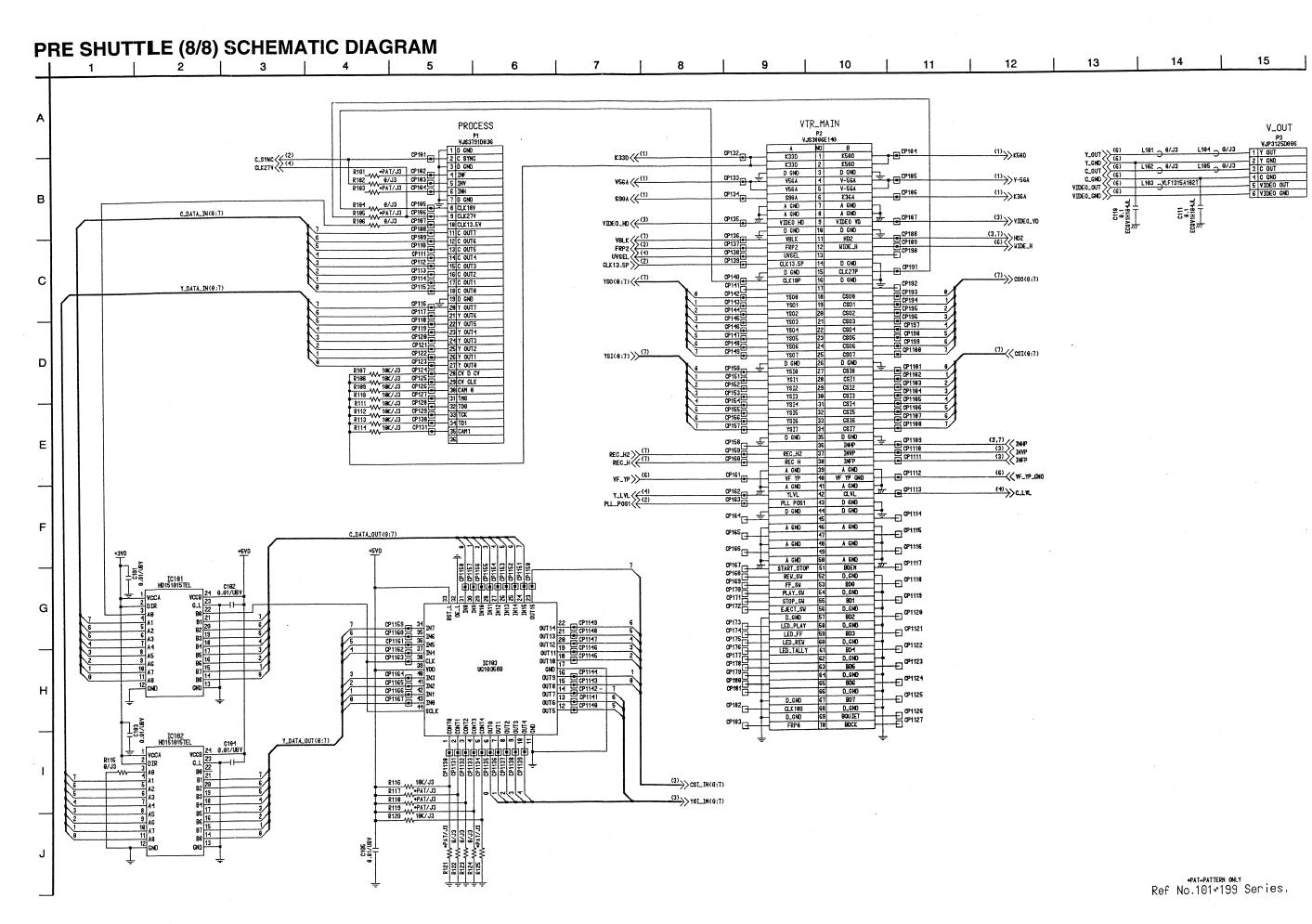


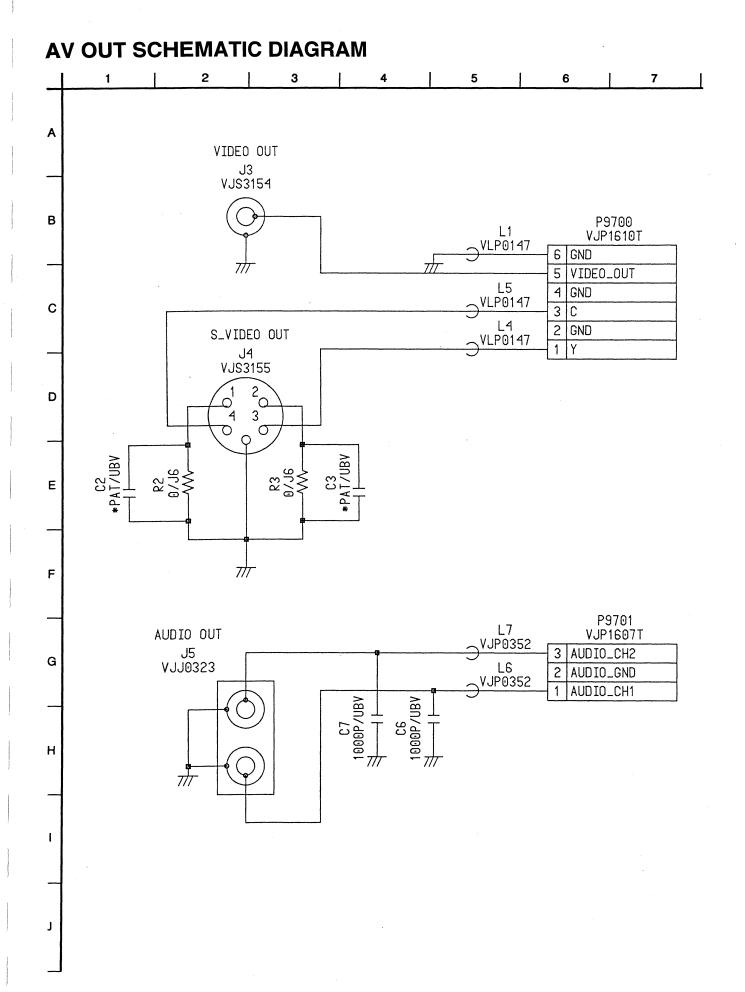












SECTION 7

CIRCUIT BOARD DIAGRAMS

CONTENTS

VIDEO MAIN P.C.BOARD	CBA-2
SERVO P.C.BOARD	CBA-3
POWER P.C.BOARD	CBA-4
AUDIO AGC P.C.BOARD	CBA-4
REAR JACK P.C.BOARD	CBA-4
S-SIDE P.C.BOARD	
TEST CONNECTOR P.C.BOARD	
AV OUT P.C.BOARD	
DC INPUT P.C.BOARD	CBA-5
SENSOR (SENSOR, ANALOG PRE PROCESS Section) C.B.A	
PROCESS (PROCESS, LENS DRIVE Section) C.B.A	
CCD D.B.A. CBA	
PRE SHUFFLE P.C.BOARD	CBA-9
H DEF P.C.BOARD	
V DEF P.C.BOARD	
CN P.C.BOARD	CBA-11
FRONT P.C.BOARD	
CRT MASK P.C. BOARD	

NOTE

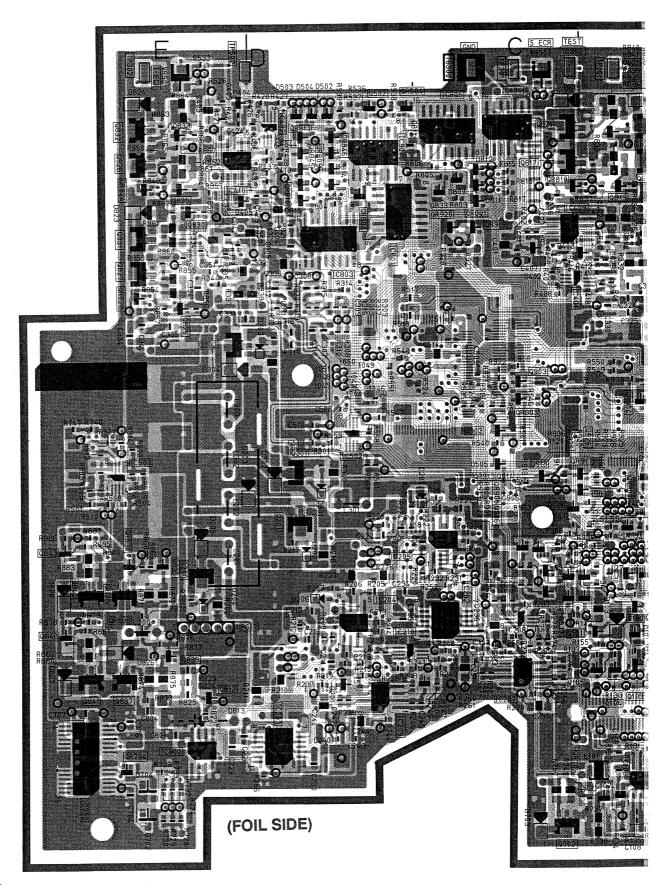
IMPORTANT SAFETY NOTICE

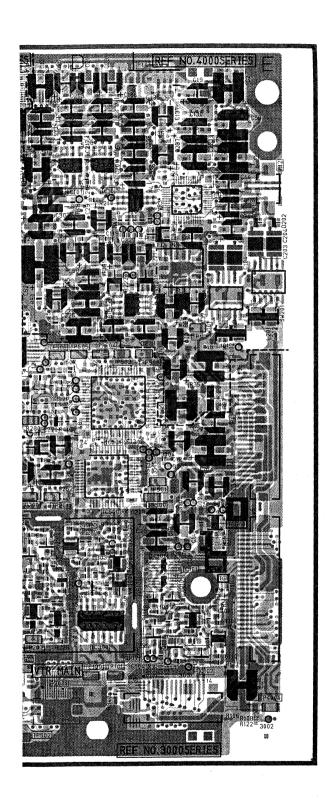
COMPONENTS IDENTIFIED WITH THE MARK \triangle HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. FOR CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST.

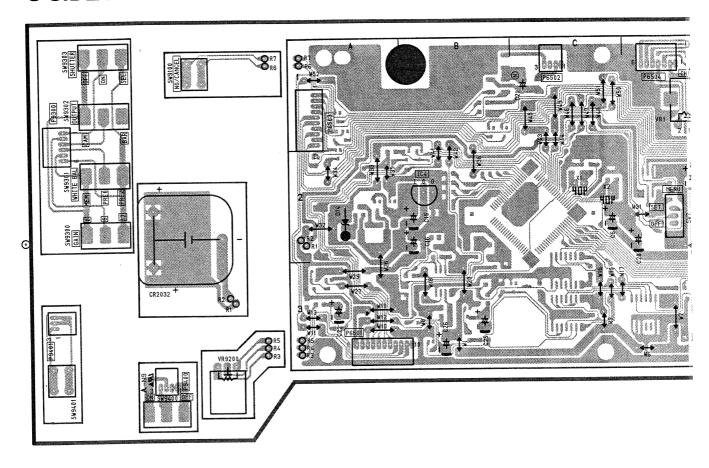
AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPAI

SERVO P.C.BOARD

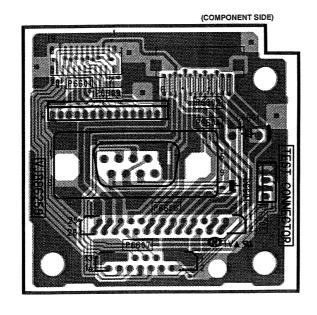


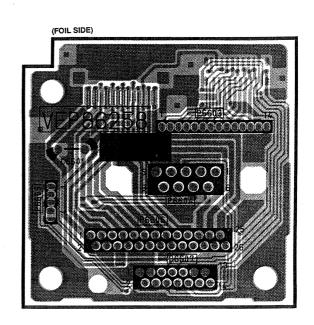


S-SIDE P.C.BOARD



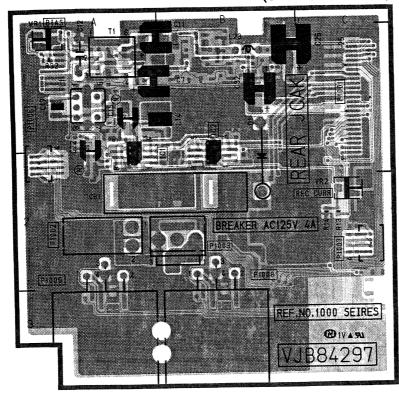
TEST CONNECTOR P.C.BOARD



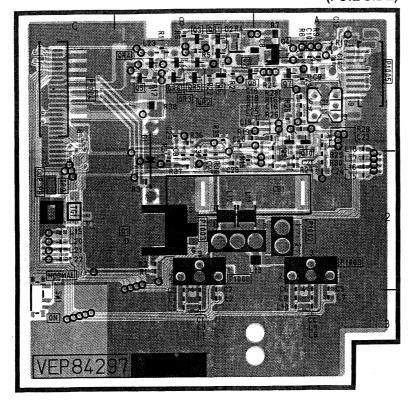


REAR JACK P.C.BOARD

(COMPONENT SIDE)

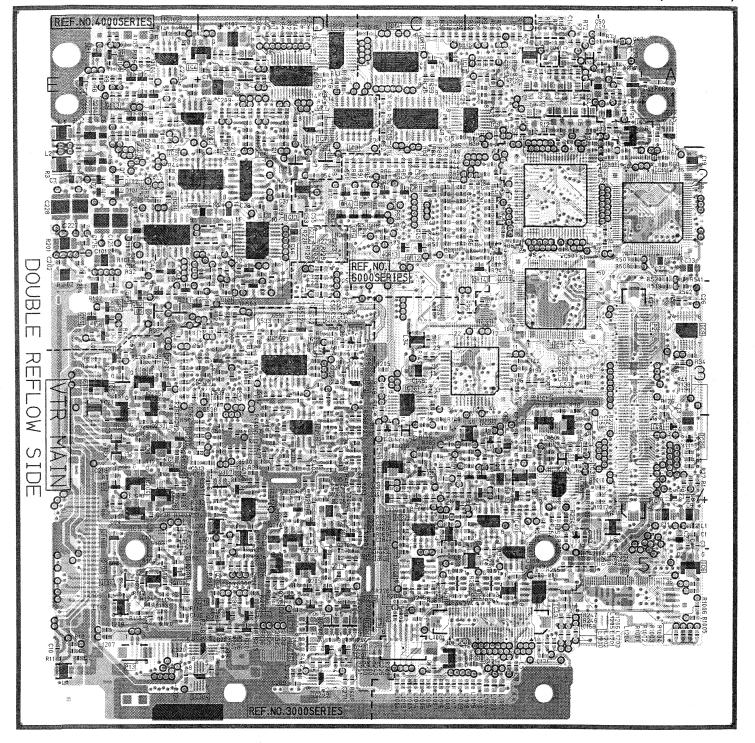


(FOIL SIDE)

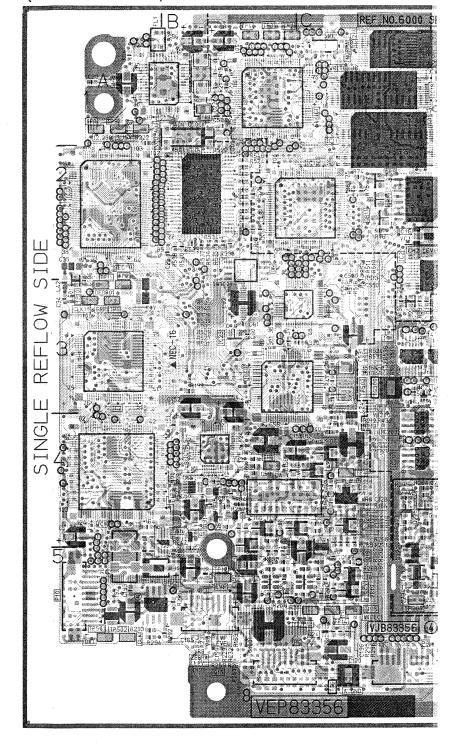


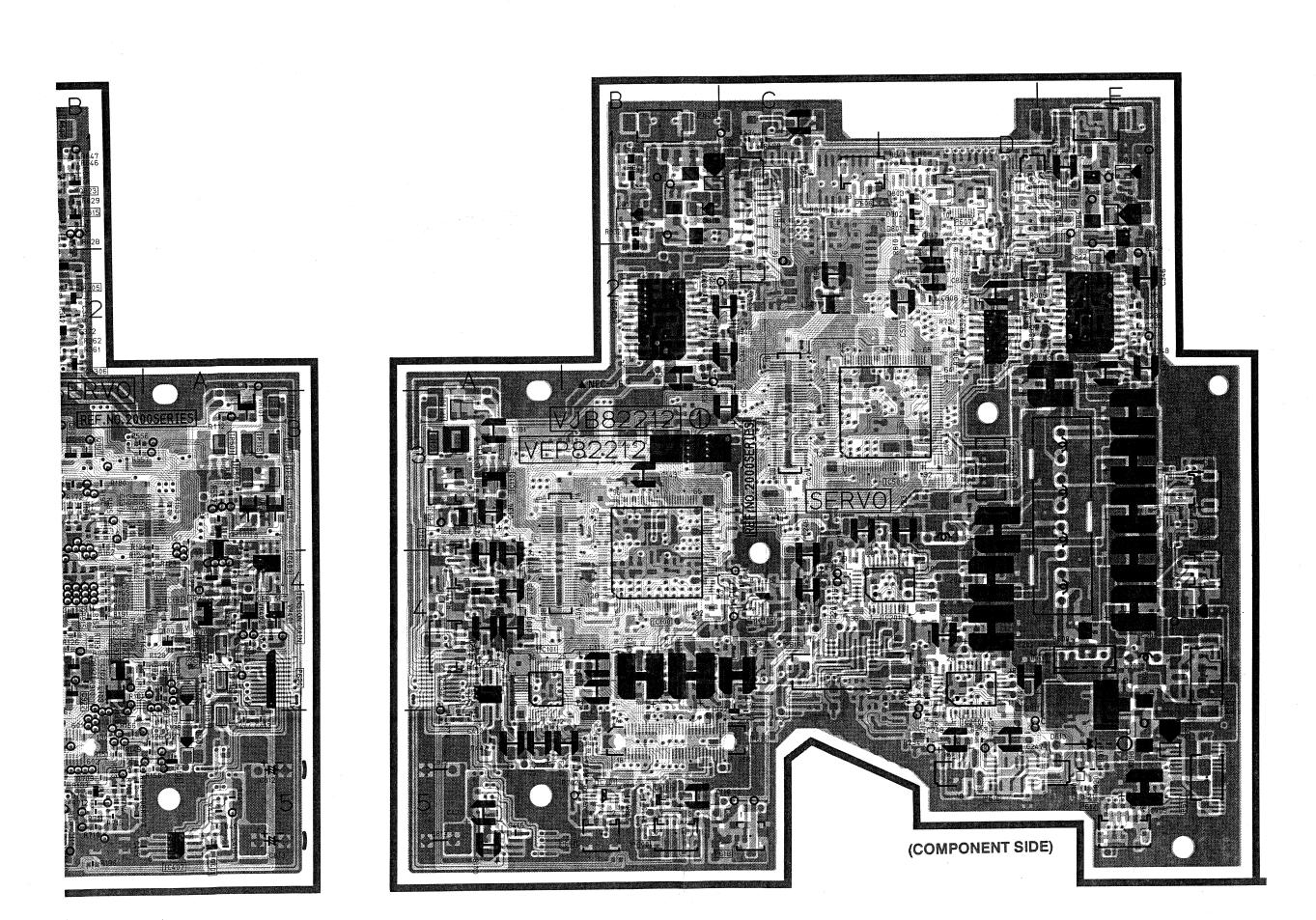
VIDEO MAIN P.C.BOARD

(FOIL SIDE)



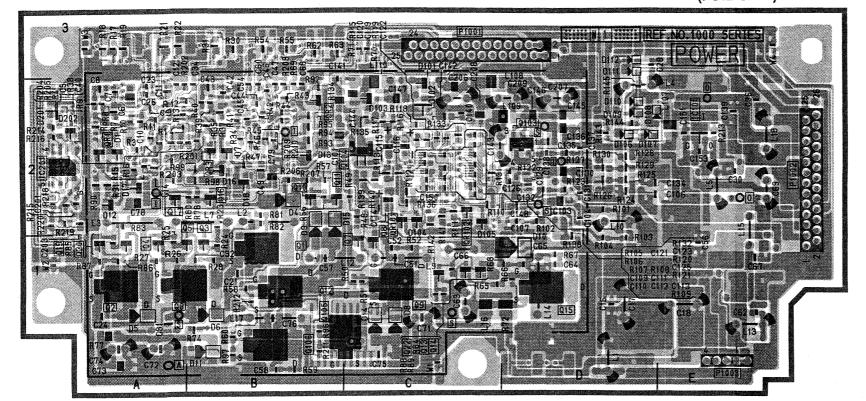
(COMPONENT SIDE)



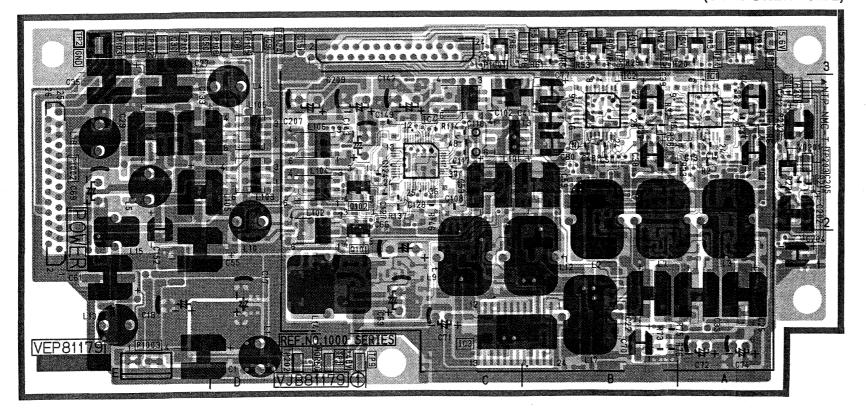


POWER P.C.BOARD

(FOIL SIDE)

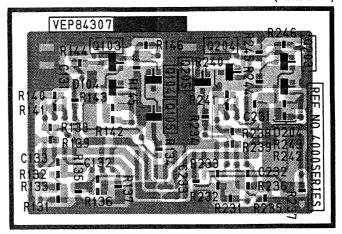


(COMPONENT SIDE)

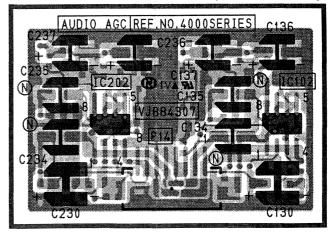


AUDIO AGC P.C.BOARD

(FOIL SIDE)

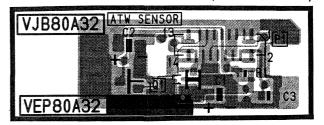


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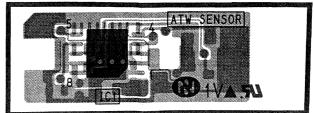


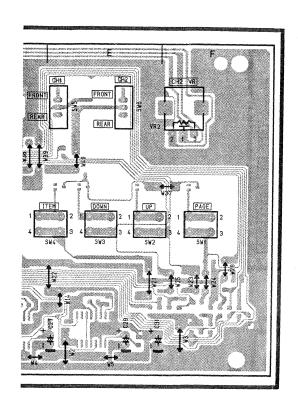
ATW SENSOR P.C.BOARD

(COMPONENT SIDE)

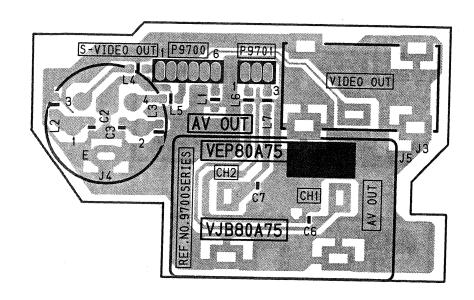


(FOIL SIDE)

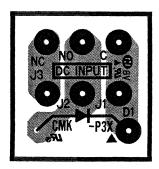




AV OUT P.C.BOARD

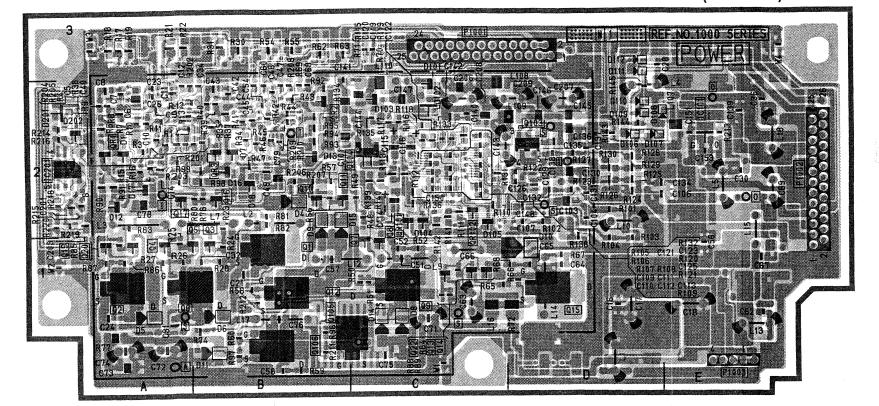


DC INPUT P.C.BOARD

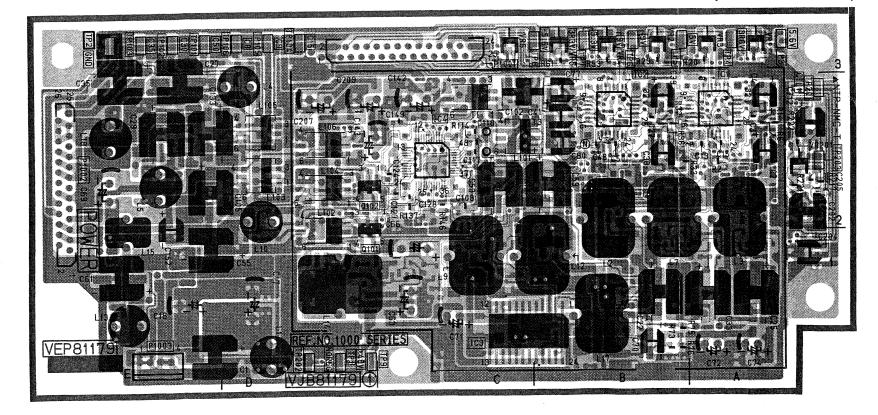


POWER P.C.BOARD

(FOIL SIDE)

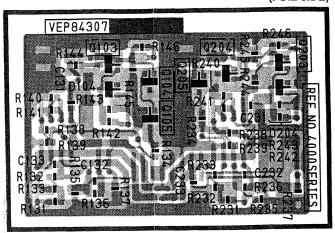


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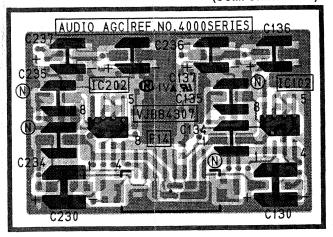


AUDIO AGC P.C.BOARD

(FOIL SIDE)

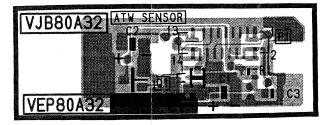


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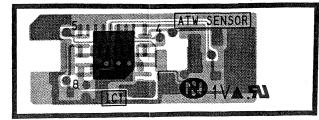


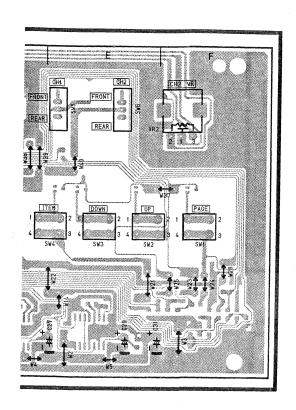
ATW SENSOR P.C.BOARD

(COMPONENT SIDE)

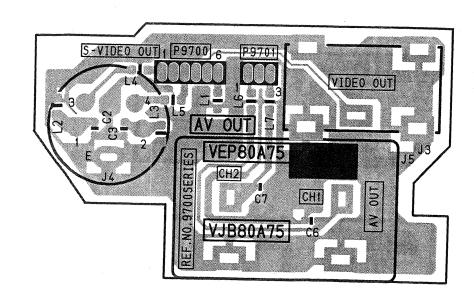


(FOIL SIDE)

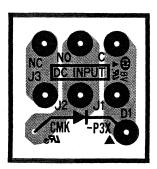




AV OUT P.C.BOARD

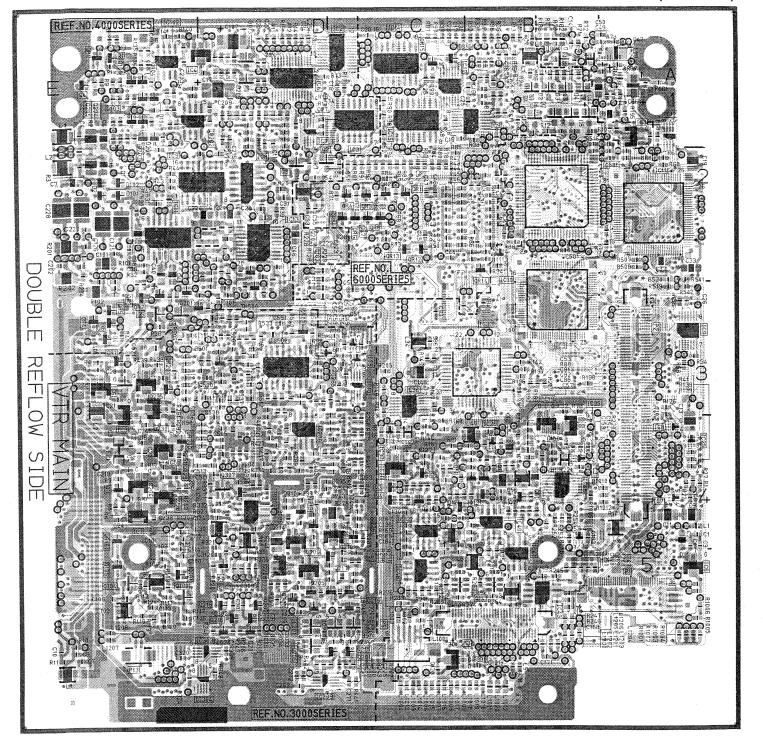


DC INPUT P.C.BOARD

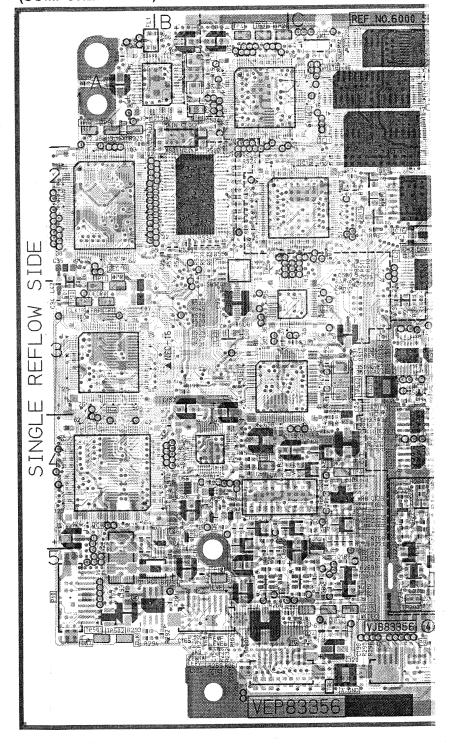


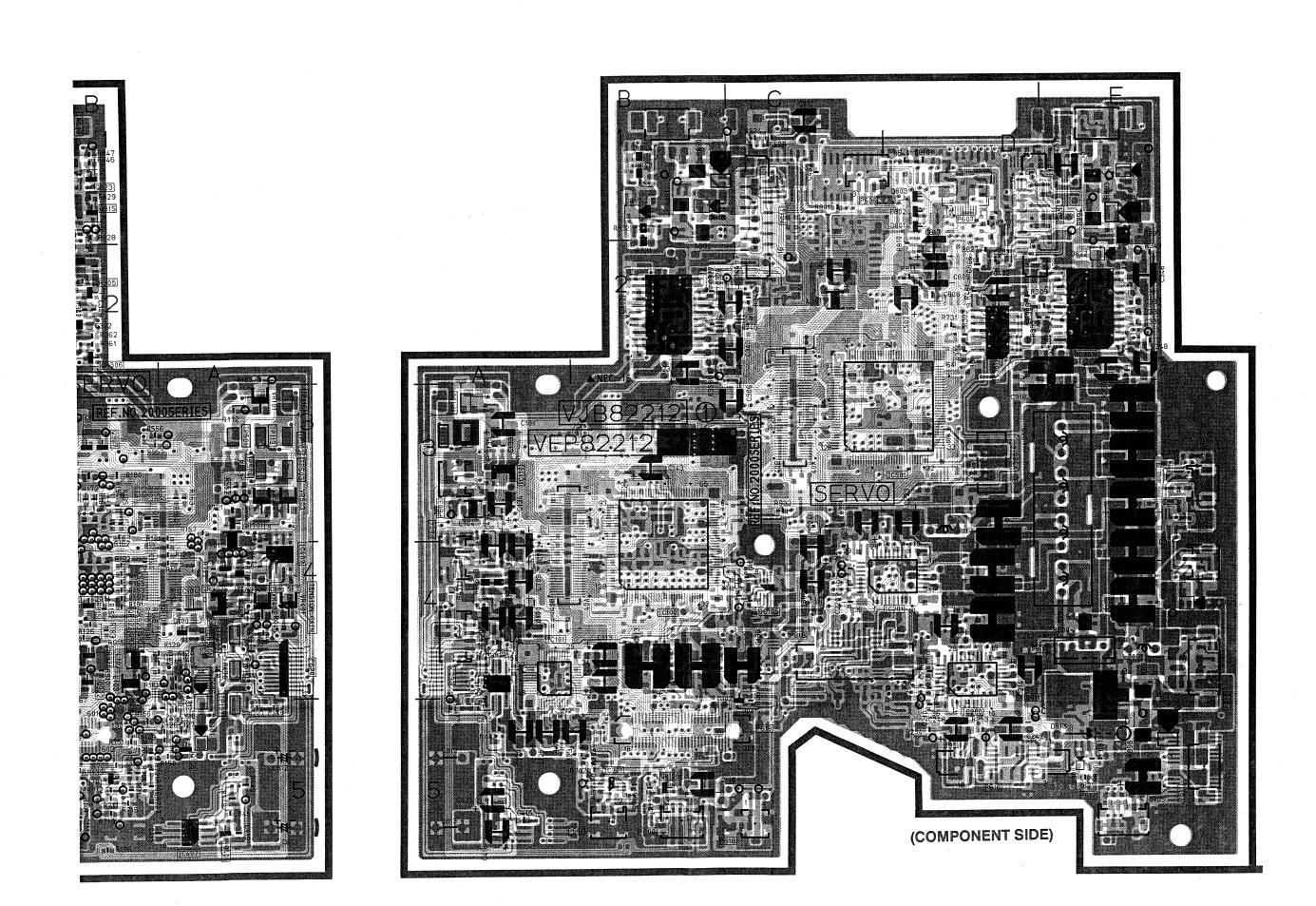
VIDEO MAIN P.C.BOARD

(FOIL SIDE)

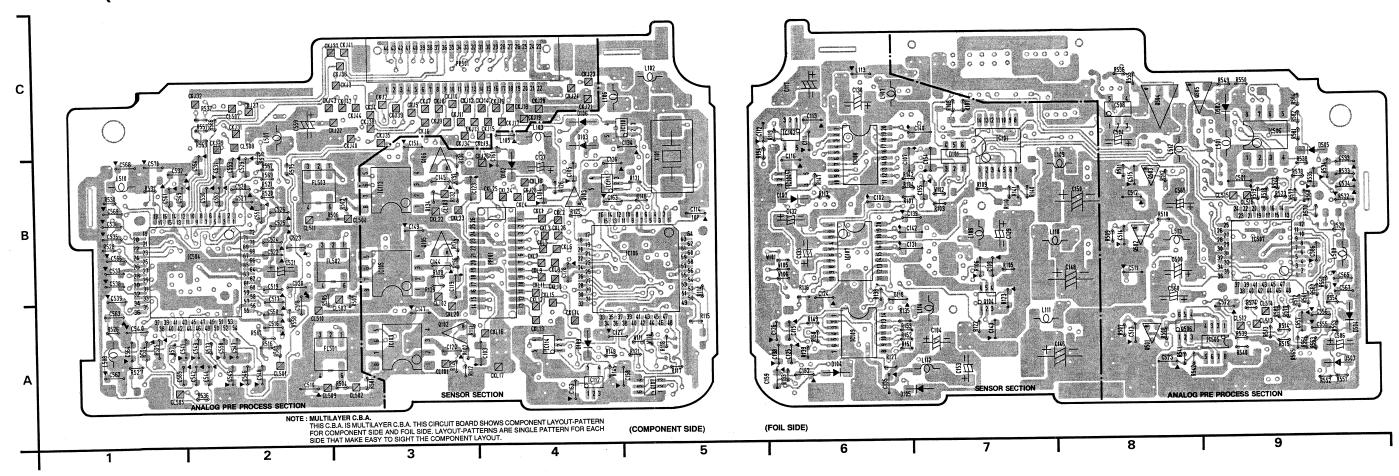


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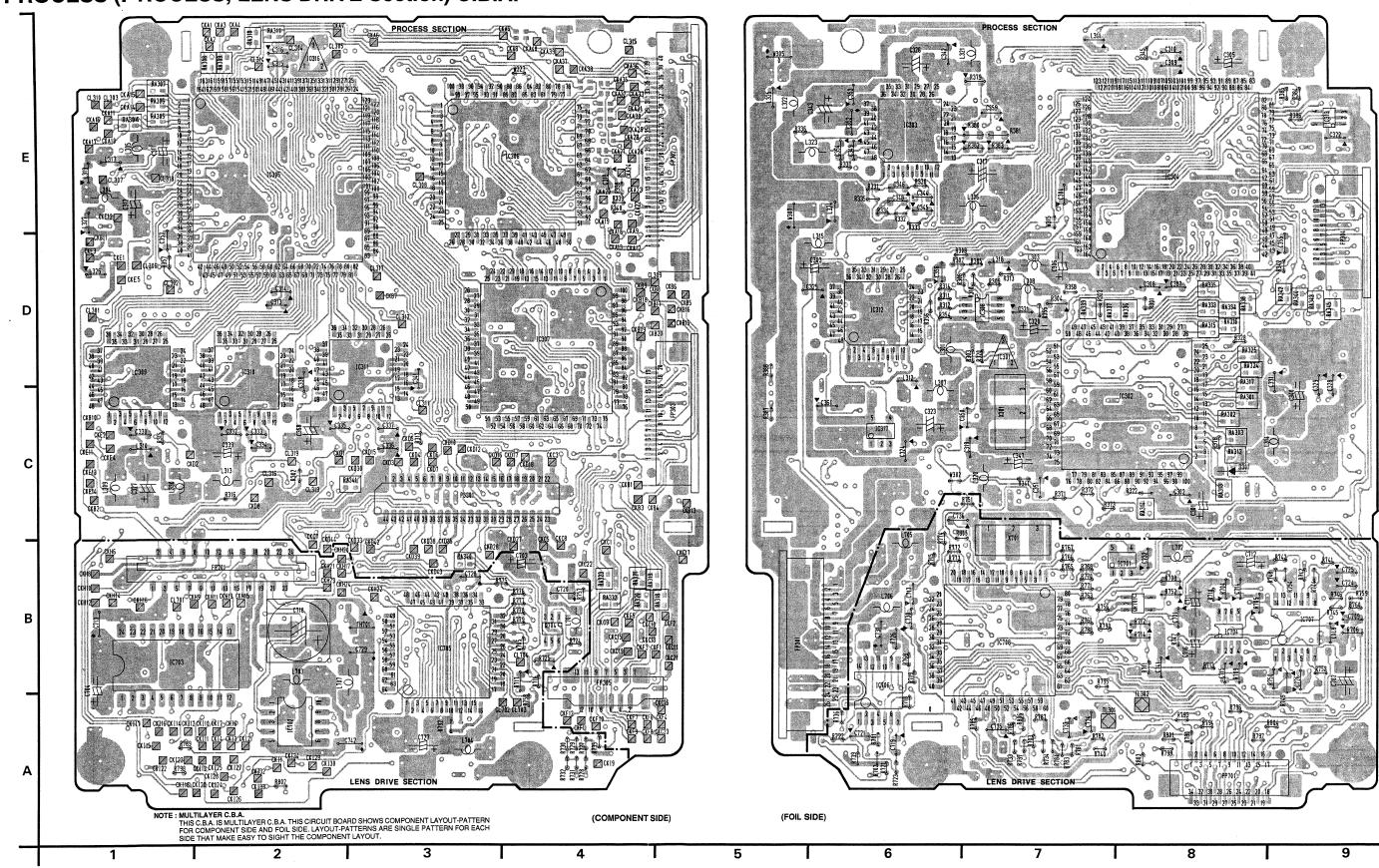


SENSOR (SENSOR, ANALOG PRE PROCESS Section) C.B.A.



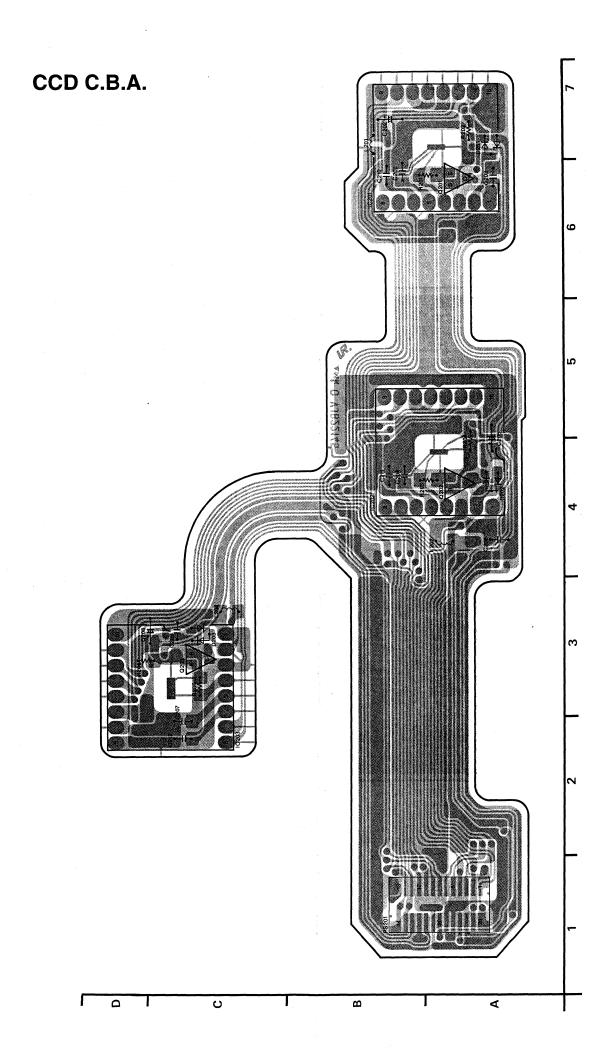
										SENS	R C.B.A.	•				.,					T
Integrated Ci	ircuit	Diode		Connector		Capacitor		C142 C143	B-6 A-7	C523 C524	B-2 B-2	C559 C560	C-2 A-8	R118 R119	A-5 C-6	R502 R503	A-3 B-3	R538 R539	B-9 A-9	R580 R581	A-9 C-9
	C-7	D101	B-7	PP101	B-4	C102	B-6	C143	B-3	C525	B-2	C561	B-1	R120	A-3	R504	A-3	R540	A-9	R582	C-9
IC101 IC102	C-6	D102	B-4	PP501	C-3	C103	A-4	C144	B-3	C526	B-2	C562	A-1	R121	A-5	R505	A-2	R541	A-8	R583	A-2
IC102	A-3	D103	C-4		`	C104	A-7	C146	A-8	C527	B-2	C563	A-1	R122	A-7	R506	B-3	R542	A-8	R584	C-9
IC103	B-6	D104	A-6	Crystal Oscil	lator	C105	B-4	C147	A-3	C528	B-2	C564	A-1	R123	A-7	R507	A-8	R549	C-9	Wire	
IC105	B-3	D105	A-6	V404	B-5	C107	B-6	C148	B-8	C529	B-2	C565	B-9	R124	B-3	R508	A-8	R550	C-9	11/404	B-6
IC106	B-4	D106	C-4	X101	D-0	C109	B-7	C149	B-3	C530	B-2	C566	B-1	R125	B-4	R509	B-8	R551	A-9	W101 W105	B-6
IC107	B-6	D107	B-6			C111	C-6	C150	B-8	C531	B-2	C567	A-9	R126	B-4	R510	B-8	R552	A-9	W105 W106	B-6
IC108	B-6	D109	A-4	Filter		C112	B-5	C151	C-3	C532	B-1	C568	B-1	R127	A-6	R511	B-8	R553	A-9	W106	A-5
IC109	A-6	D502	C-9	FL501	A-2	C113	C-6	C152	A-6	C533	B-9	C569	B-1	R128	B-3	R512	B-8	R554	A-9	W110	A-5
IC110	C-4	D503	A-9	FL502	B-2	C114	B-5	C153	A-7	C534	B-9	C570	B-1	R129	B-3	R513	A-9	R555	C-8	W112	B-7
IC111	B-4	D504	A-9	FL503	B-2	C115	A-6	C154	B-7	C535	B-1	C572	A-9	R130	B-3	R514	A-9	R556	C-8	VV 112	5-7
IC112	A-4	D505	C-9			C116	B-6	C155	B-7	C536	B-1	C573	A-8	R131	B-5	R515	A-9	R557	C-2		
IC113	B-3			Coil		C117	C-6	C158	A-4	C537	B-1	C585	B-8	R132	B-3	R516	A-2	R558	A-2		
IC114	A-4	Test Point			T	C118	A-6	C159	A-6	C538	B-1	C586	B-9	R133	A-6	R517	A-2	R559	C-2		
IC504	B-2			L102	C-5	C119	B-3	C161	B-4	C539	B-1	C589	A-1	R134	B-3	R518	B-9	R560 R561	A-9 A-9		1
IC505	A-9	CL101	A-3	L103	C-4	C120	A-3	C162	A-4	C540	A-1	Resistor		R135	A-6	R519	B-9	R562	A-9		ł
IC506	C-9	CL102	B-3	L104	B-4 C-4	C123	B-3	C163	B-4	C541	A-2		T	R136	B-3	R520	B-2	R563	A-9	·	
IC507	B-9	CL103	B-3	L105	C-4	C124	A-6	C500	B-8	C542	A-2	R101	B-6	R137	B-3	R521	B-2	R564	A-9		
IC508	C-8	CL501	A-2	L106		C125	A-6	C501	B-9	C543	A-2	R102	A-3	R138	A-6	R522	B-9	R565	A-9		
		CL502	A-3	L107	C-6	C126	A-6	C504	C-8	C544	A-2	R103	B-7	R139	A-6	R523	B-9	R566	G-2		
Transistor		CL503	A-3	L108	B-7	C127	A-4	C506	A-9	C545	A-2	R104	B-6	R140	B-7	R524	A-1	R567	B-2		
		CL504	B-3	L109	B-8	C128	B-4	C510	A-2	C546	A-2	R105	B-7	R141	B-7	R525	A-1	R568	B-9		
Q102	A-3	CL505	A-1	L110	B-7	C129	B-7	C511	B-8	C547	A-2	R106	B-7	R142	B-6	R526	A-1		B-9 B-2		
Q103	B-4	CL507	C-2	L111	A-7	C130	C-6	C512	B-8	C548	A-2	R107	C-7	R145	A-4	R527	A-1	R569	B-2 B-9		
Q104	A-7	CL508	C-2	L112	A-7	C131	B-6	C513	A-8	C549	B-1	R108	C-7	R146	B-5	R528	B-1	R570	A-1		
Q105	B-3	CL509	A-2	L113	C-6	C132	B-6	C514	B-8	C550	A-2	R109	B-7	R147	B-6	R529	B-9	R571	A-1 A-9		1
Q106	B-3	CL510	A-2	L114	A-7	C133	B-6	C515	B-8	C551	B-2	R110	B-7	R148	A-4	R530	B-1	R572			
Q107	A-5	CL510	B-2	L501	C-9	C134	C-5	C516	A-2	C552	B-2	R111	A-3	R149	A-6	R531	B-1	R573	A-2		1
Q501	A-8	CL512	A-9	L507	C-2	C135	A-6	C517	B-2	C553	B-2	R112	A-3	R150	A-6	R532	B-9	R574	A-9 B-2		1
Q502	B-8	CL512	A-9	L508	A-1	C136	B-4	C518	A-2	C554	B-2	R113	B-6	R151	A-6	R533	B-9	R575	B-2 B-2		
Q503	B-8	CL513	A-9	L509	B-9	C137	B-4	C519	B-2	C555	A-9	R114	B-5	R152	A-6	R534	B-9	R576	B-2 B-9		
Q504	C-8	CL514	B-9	L510	B-1	C138	A-6	C520	B-2	C556	A-9	R115	A-5	R153	A-6	R535	B-9	R577			
Q505	C-8	CL516	B-9	L512	C-8	C139	B-6	C521	B-2	C557	A-9	R116	B-6	R154	B-5	R536	A-2	R578	B-9		
Q506	A-8	OL316	1 5-3	L513	B-8	C140	C-7	C522	B-2	C558	A-2	R117	A-5	R501	A-3	R537	C-2	R579	A-9		

PROCESS (PROCESS, LENS DRIVE Section) C.B.A.

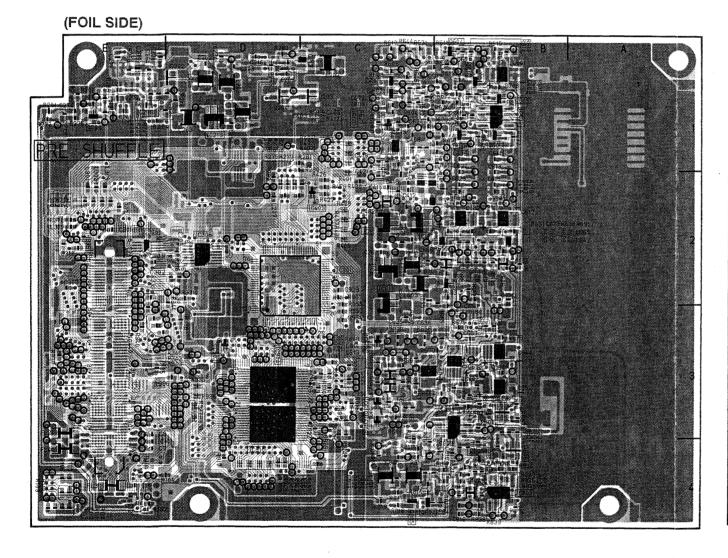


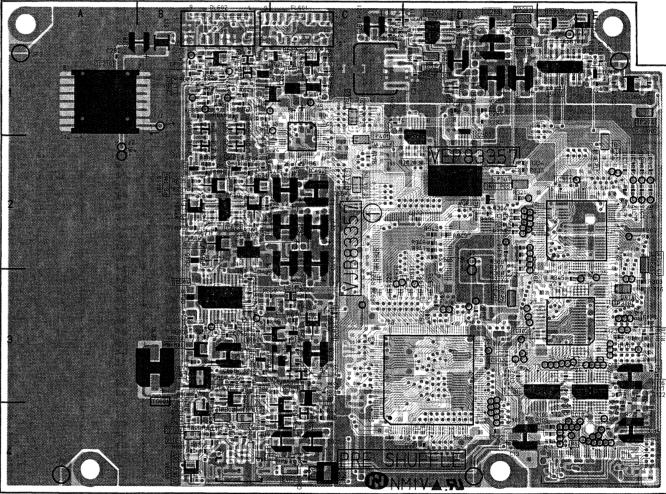
				PROCE	SS C.B.A.				
Integrated Circ	cuit	L306	E-7	C354	E-6	R379	E-7	R780	A-8
IC301	D-7	L307	D-6	C355	D-9	R380	E-7	R781	A-7
IC301	C-7	L308	D-7	C356	D-6	R381	E-7	R782	A-7
IC303	E-6	L309	C-1	C357	D-1	R382	E-7	R783	A-7
IC303	E-8	L310	C-1	C358	C-2	R383	E-7	R784	A-7
	E-2	L311	F-7	C359	E-7	R384	E-9	R785	A-7
IC305		L312	D-6	C361	C-6	R385	E-9	R786	A-7
IC306	E-4	L313	C-2	C701	B-8	R386	E-9	R787	A-7
IC307	D-4	L314	C-9	C702	B-9	R387	C-5	R788	B-7
IC308	D-7	L315	D-6	C703	B-4	R388	D-5	R789	A-1
IC309	D-1	L317	E-1	C704	B-1	R701	A-6	R790	B-7
IC310	D-2	L318	D-7	C709	B-9	R702	A-6	R792	A-3
IC311	D-3	1	1		B-8	1	1	1 .	
IC312	D-6	L319	E-1	C711	1	R703	A-7	R793	A-8
IC313	E-9	L320	C-7	C712	B-8	R704	B-8	R794	A-8
IC316	F-2	L321	F-7	C713	B-1	R705	B-8	R795	B-7
IC317	C-6	L322	F-5	C714	B-8	R706	B-9	R796	A-8
		L323	E-6	C715	B-8	R707	B-9	R797	A-8
IC701	B-8	L324	E-6	C716	B-8	R708	B-8	R798	A-1
IC702	A-2	L325	E-5	C717	B-6	R709	B-8	R799	A-8
IC703	B-1	L326	D-1	C718	B-2	R710	B-8	R801	A-8
IC704	B-8	L327	E-1	G719	A-6	R711	B-8	R802	A-2
IC705	B-3	L330	C-1	G720	B-4	R712	B-8	R803	A-8
IC706	B-6		4		A-6				
IC707	B-9	L701	B-4	G721		R713	B-8	R804	A-9
IC708	B-7	L702	B-8	C724	B-9	R714	B-8	R805	C-7
		L703	B-2	C725	B-9	R715	B-6	R806	A-7
Transistor		L704	A-3	C726	B-9	R716	B-4	Resistor Arra	v .
	T 5.	L705	C-6	C727	A-3	R717	B-4	110015101 ATTR	-
Q704	B-4	L706	B-6	C728	B-3	R718	A-6	RA301	C-8
Transistor & F	Resistor	L707	B-2	C729	B-3	R719	B-6	RA302	C-8
11411515101 @ 1	10010101			C730	B-6	R721	A-6	RA303	C-8
QR701	B-8	Capacitor		C731	B-6	R722	A-6	RA304	E-1
		C301	C-8	C732	B-8	R723	A-6	RA305	E-1
Diode				C732			ì		
D301	C-8	C302	C-8		A-7	R724	B-4	RA306	E-1
		C303	D-6	C734	A-7	R725	B-4	RA307	E-1
Test Point		C304	E-7	C735	A-7	R726	B-6	RA308	F-2
	T = .	C305	F-8	C736	C-7	R727	A-4	RA309	F-2
CL301	D-1	C306	D-7	C741	B-8	R728	A-4	RA310	F-2
CL302	D-1	C307	D-8	C742	A-2	R729	A-4	RA311	F-2
CL303	E-1	C308	D-8			R730	A-4	RA312	C-8
CL304	F-2	C309	F-8	Resistor		R731	A-4	RA313	C-8
CL305	F-2	C310	F-8	R301	D-8	R732	A-4	RA314	C-8
CL306	D-1								
GL307	E-1	C311	E-1	R302	C-2	R733	A-7	RA315	D-8
CL308	E-3	C312	E-1	R303	D-7	R734	A-7	RA316	D-8
	1	C313	D-2	R304	D-7	R735	A-4	RA317	D-8
CL309	D-4	C314	D-2	R305	D-7	R736	A-6	RA318	B-4
CL310	E-1	C315	F-2	R306	D-7	R737	A-7	RA319	B-4
CL311	C-3	C316	F-2	R307	D-7	R739	A-6	RA320	B-4
CL312	D-3	C317	E-7	R308	D-7	R740	A-7	RA321	B-4
CL313	C-2	C318	E-4	R309	D-7	R741	B-9	RA322	B-4
CL314	F-2	C319	C-7	R310	D-7	R742	B-9	RA323	B-4
CL315	F-4		D-7	R311	D-6				
CL316	C-2	C320				R743	B-9	RA324	D-8
CL317	D-3	C321	D-7	R312	D-6	R744	B-9	RA325	D-8
CL317	E-1	C322	E-9	R313	D-7	R745	B-9	RA333	D-8
	1	C323	C-6	R314	D-6	R746	B-9	RA334	D-8
CL319	C-2	C324	C-6	R315	C-1	R747	B-8	RA335	D-8
CL701	B-1	C325	D-6	R316	C-2	R748	B-9	RA336	D-8
CL702	A-4	C326	F-6	R317	C-3	R749	B-9	RA337	D-8
CL703	A-4	C327	C-1	R320	D-7	R750	B-8	RA338	D-8
CL704	B-4	C328	D-9	R322	C-8	R751	C-7	RA339	D-7
TL301	A-7	C329	D-9	R323	D-7	R752	B-8	RA340	B-3
TL302	A-8				D-8		1		
		C330	C-1	R328	1	R753	B-9	RA341	C-3
Thermistor		C331	C-9	R330	E-6	R754	B-9	RA342	D-9
	T B2	C332	C-2	R331	E-6	R756	B-7	RA343	D-9
TH701	B-3	C333	C-2	R332	E-6	R757	B-4	RA344	D-9
Connector		C334	C-2	R333	E-6	R758	A-4	RA345	D-9
		C335	C-2	R334	E-6	R759	B-9	Mira	
FP301	B-5	C336	C-3	R335	E-6	R760	B-9	Wire	
FP302	E-5	C337	C-3	R336	E-5	R761	B-7	W302	C-6
FP303	C-5	C338	D-2	R337	E-6	R763	B-7	W305	F-5
FP304	D-9	C339	C-2	R338	E-4	R765	B-7	W307	E-5
FP305	B-4	C340	C-9	R339	E-4	R766	B-7	W315	E-7
FP701	B-2	G341	D-3			R767			
	A-8			R340	E-4		B-7	W327	F-4
PP701	C-3	C342	F-6	R341	C-7	R768	B-7	W705	B-4
PP701	U-3	C343	E-6	R342	D-9	R769	B-6	1	
PP701 PS301	ator	C344	E-6	R345	F-8	R770	B-7	1	I
PS301		C345	E-6	R354	D-6	R771	B-7	1	1
			E-6	R355	D-7	R772	B-6		1
PS301	C-7	C346			D-6	R773	B-6	1	1
PS301 Crystal Oscill			C-7	H356					
PS301 Crystal Oscill X301 X701	C-7	C347	C-7 E-6	R356 R357			1	l	1
PS301 Crystal Oscill X301	C-7	C347 C348	E-6	R357	D-1	R774	C-6		
PS301 Crystal Oscill X301 X701 Coil	C-7 C-7	C347 C348 C349	E-6 E-6	R357 R358	D-1 D-7	R774 R775	C-6 B-3		
PS301 Crystal Oscilli X301 X701 Coil L301	C-7 C-7	C347 C348 C349 C350	E-6 E-6 C-7	R357 R358 R371	D-1 D-7 C-7	R774 R775 R776	C-6 B-3 B-4		
PS301 Crystal Oscill X301 X701 Coil L301 L303	C-7 C-7	C347 C348 C349 C350 C351	E-6 E-6 C-7 C-7	R357 R358 R371 R372	D-1 D-7 C-7 C-7	R774 R775 R776 R777	C-6 B-3 B-4 B-4		
PS301 Crystal Oscilli X301 X701 Coil L301	C-7 C-7	C347 C348 C349 C350	E-6 E-6 C-7	R357 R358 R371	D-1 D-7 C-7	R774 R775 R776	C-6 B-3 B-4		

ADDRESS INFORMATION



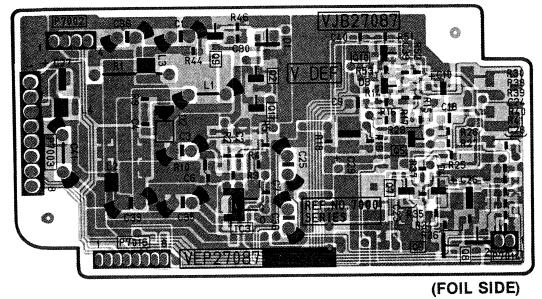
PRE SHUFFLE P.C.BOARD

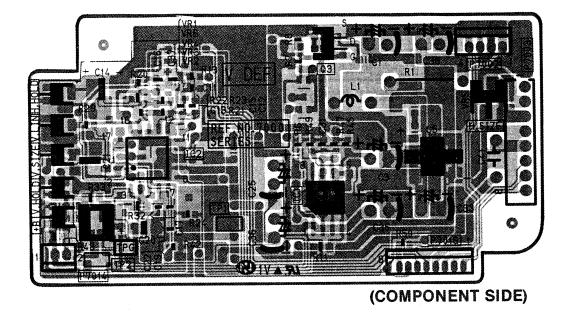




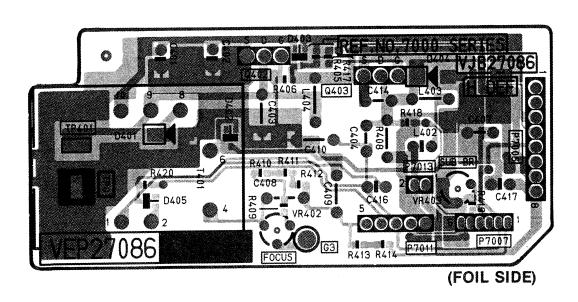
(COMPONENT SIDE)

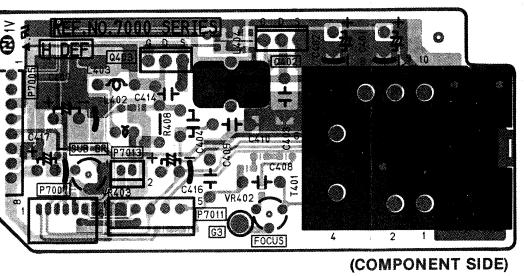
V DEF P.C.BOARD



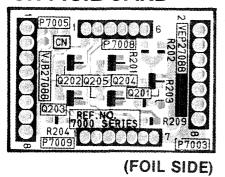


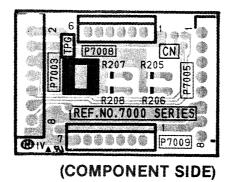
H DEF P.C.BOARD



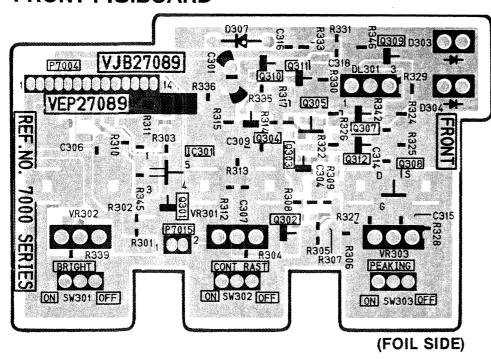


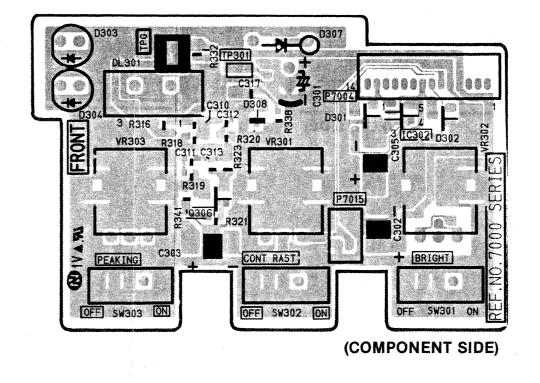
CN P.C.BOARD



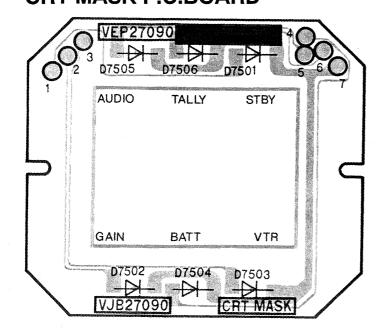


FRONT P.C.BOARD





CRT MASK P.C.BOARD



SECTION 8

EXPLODED VIEWS PARTS LIST

NOTE:

- 1. *Be sure to make your orders of replacement parts according to this list.
- 2. Unless otherwise specified, all resistors are in OHMS, K=1,000 OHMS, all capacitors are MICROFARADS (μF), P=μμF.
- 3. The P.C.Board units marked with " " shown below the main assembled parts.
- 4. The parts marked with (E) on the exploded view show the electric parts.
- 5. IMPORTANT SAFETY NOTICE

Components identified with the mark < ! > have the special characteristics for safety. When replacing any of these components, use only the same type.

6. The marking (RTL) indicates the retention time is limited for this item. After the discontinuation of this assembly in production, it will no longer be available.

<< Abbreviations for part >>

< NAME >

< DESCRIPTIONS >

< 14) divine >			
C. CAPACITOR C. CAPACITOR E. CAPACITOR G. CAPACITOR M. CAPACITOR P. CAPACITOR S. CAPACITOR T. CAPACITOR TRIMMER	СН	CERAMIC CAPACITOR CERAMIC CHIP CAPACITOR ELECTROLYTIC CAPACITOR GLASS CAPACITOR MICA CAPACITOR PLASTIC FILM CAPACITOR SEMI-CONDUCTOR CAPACITOR TANTALUM CAPACITOR TRIMMER	
C. RESISTOR F. RESISTOR M. RESISTOR M. RESISTOR S. RESISTOR V. RESISTOR W. RESISTOR	СН	: CARBON RESISTOR : FUSE RESISTOR : METAL OXSIDE RESISTOR : METAL OXSIDE CHIP RESISTOR : SOLID RESISTOR : VARIABLE RESISTOR : WIRE WOUND RESISTOR	
COMBI. TR-R COMBI. R-R COMBI. C-R COMBI. C-R-R		 TRANSISTOR-RESISTOR COMBINATION PARTS RESISTOR-RESISTOR COMBINATION PARTS CAPACITOR-RESISTOR COMBINATION PARTS CAPACITOR-RESISTOR-COIL COMBINATION PARTS 	
P.C. BOARD W / COMPONENT		: PRINTED CIRCUIT BOARD : WITH COMPONENT	

CONTENTS

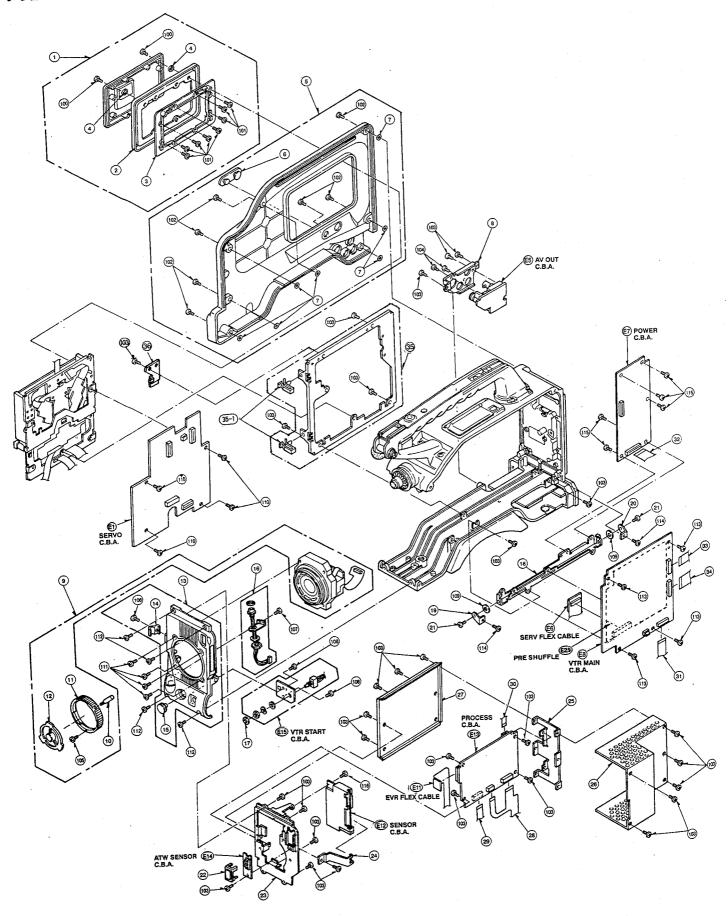
MECHANICAL REPLACEMENT PARTS LIST	•••••••••••• PRT-1
FRAME ASSEMBLY(1) ······	PRT-1
FRAME ASSEMBLY(2) ·····	PRT-2
MECHANICAL CHASSIS ASSEMBLY(1)	PRT-3
MECHANICAL CHASSIS ASSEMBLY(2) ······	PRT-4
CASSETTE COMPARTMENT ASSEMBLY	
EVF ASSEMBLY ·····	PRT-6
PACKING PARTS ASSEMBLY	PRT-7
ELECTRICAL REPLACEMENT PARTS LIST	PRT-8

SERVICING FIXTURES & TOOLS

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks	Ref. No.	Part No.	Part Name & Description	Pc	s Remarks
								L	
1	VFK1145	BACK TENSION METER	1			VFM3680KL	ALIGNMENT TAPE No1	L	1
2	VFK1149	POST DRIVER	_1			VFM3681KL	ALIGNMENT TAPE No2	1	1
3	VFK71	DIAL TORQUE GAUGE (150G)	1		32	VFM3682KL	ALIGNMENT TAPE No3	1_	1
4	VFK1191	DIAL TORQUE GAUGE (45G)	1		L			1	
5	VFK1152	DIAL TORQUE GAUGE ADAPTOR	1		L			1	
6	VFK0357	ECCENTRIC SCREWDRIVER	1					\perp	
7	VFK1154	POST HEIGHT FIXTURE	1					L	
8	VFK1153	MECH. NEUTRAL PLATE (POST)	1					L	
8	VFK1157	MECH. NEUTRAL PLATE (CASE)	1			L		1	
9	VFK1155	NEUTRAL POSITION TOOL	1					L	
10	VFK1156	NEUTRAL POSITION TOOL	1		L	L		1	<u> </u>
11	VFK1208	NEUTRAL POSITION TOOL	1			<u> </u>		L	
12	VFK1150	NUT DRIVER (5.5MM)	_1		L	L		L	
13	VFK1151	NUT DRIVER (2.2MM)	1		L		<u> </u>	L	
14	VFK1188	DIAL TENSION GAUGE (30G)	1					L	
15	VFK0948	CHECK LIGHT	1					L	
16	VFK0749	FROIRAL GREASE	1		L			L	
17	MOR265	MORLYTONE GREASE	1					L	
18	VFK1146	PHILLIPS DRIVER (00-75)	1					L	
19	VFK1147	PHILLIPS DRIVER (0-100)	1					L	
20	VFK1148	HEX. DRIVER (1.5)	1					L	
21	VFK1178	HEX. DRIVER (0.89)	1						
22	VFK1179	HEX. DRIVER (0.71)	1					\Box	
23	VFK1190	HEX. WRENCH	1		L				
24	VFK1209	TORQUE DRIVER 0. 4-3KG)	_1						
25	VFK0912	POST AXIS DRIVER (1.5MM)	1					Ĺ	
26	VFK1300	A/D BOARD (DAQ-12 QUATECH	1						
28	VFK1159	LISTA SOFTWARE	1					L	
29	VFK1186	LISTA CABLE	1					L	
								Γ	
								Τ	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks	Ref. No.	Part No.	Part Name & Description	Pes	s Remarks
		ALCOSTIE COVED	1					_	
1		CASSETTE COVER WATERPROOF R		200,000,000,000				\vdash	
2		CASSETTE COVER WATERPROOF R	1	22 2 444 12	10.0			-	
3	VGQ4428 VMX2605	WASHER	2			-		┢	
5		SIDE CASE (L)	1					-	
6		E-E CAP	1		,	1	And the state of t	-	
7		NYLON WASHER	7						
8		SIDE JACK HOLDER ANGLE	1					_	<u></u>
9		PRISM U.	1						
10	VHD0809	LENS RING KNOB	1					٠,	
11	VDW0472	LENS RING	1						
12	VKF2726	MOUNT CAP	1						
13	VYK7628	MOUNT CASE (1) U	1						
14	VJF0804	CABLE CLAMPER	1					L	
15	VGU6714	RUBBER BUSH KNOB	1					L.,	
16	VEK8181	LENS CABLE	1					<u> </u>	
17		WATERPROOF SW INSULATION SH	-						
18	VXA5958	C. B. A. ANGLE	1					<u> </u>	
19	VMP4273	C. B. A. ROTATE ANGLE (L)	1		ļ ļ				
20	VMP4274	C. B. A. ROTATE ANGLE (R)	1					V.,	
21	VHD0325	SCREW	2					-	
22	VKW2024	AWT SENSOR WINDOW P. C. B. HOLDER ANGLE	1		 		· · · · · · · · · · · · · · · · · · ·	<u> </u>	
23	 	SENSOR P. C. B. HOLDER ANGLE	1		l			-	
24 25	VMP5404 VSC4644	SHIELD CASE (1)	1		<u> </u>	 		\vdash	
25 26	VSC4644 VMP5372	C. B. A. SUPPORT ANGLE	 		l 			 	1
27	VSC4645	SHIELD CASE (2)	1			 		\vdash	
28	VJB00Y57	CAMERA FLEXIBLE	1			·		-	1
29		FLEXIBLE CABLE	1						
30		ATW SENSOR FFC	1	***************************************					•
31	VWJ14C2280L0	FLEXIBLE CABLE	1						
32	VWJ2602360L0	FLEXIBLE CABLE	1						
33	VWJ25C2O40L0	FLEXIBLE CABLE	1						
34	VWJ2502130L0	FLEXIBLE CABLE	1						
35	VXA5923	SUB PLATE U	_1						
35-1	VGQ0107	CLAMPER	1						
36	VMP5488	SUPPORT ANGLE	1					<u> </u>	<u> </u>
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						ļ		<u> </u>	<u></u>
	ļ		<u> </u>				No. 2 10 10 10 10 10 10 10 10 10 10 10 10 10		
100	XSB26+16FZ	SCREW	2		:	ļ.,			
101	XTB26+6GFZ	SCREW	7				·		
102	XSB3+10FZ XYN3+C6	SCREW	28						
104	XTV3+6G	SCREW	2		<u> </u>			-	
105	XQN2+A4FZ	SCREW	1						
106		SCREW	1						
107	XYN26+C6	SCREW	1						
108	XYN3+K6RS	SCREW	2						
109	XWGV4Y12G	WASHER	2						
110	XYN26+K6	SCREW	4						
111	XSB3+6FZS	SCREW	4						
112	XSB3+12FZS	SCREW	4						
113	XTB3+E6FR	SCREW	3			<u> </u>	· · · · · · · · · · · · · · · · · · ·		
114	VHD0325	SCREW	2	·	 				·
115	XYE3+EF6R	SCREW	5		<u> </u>				
116	XYN2+G4	SCREW	1	<u> </u>	 				
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FRAME ASSEMBLY (1)



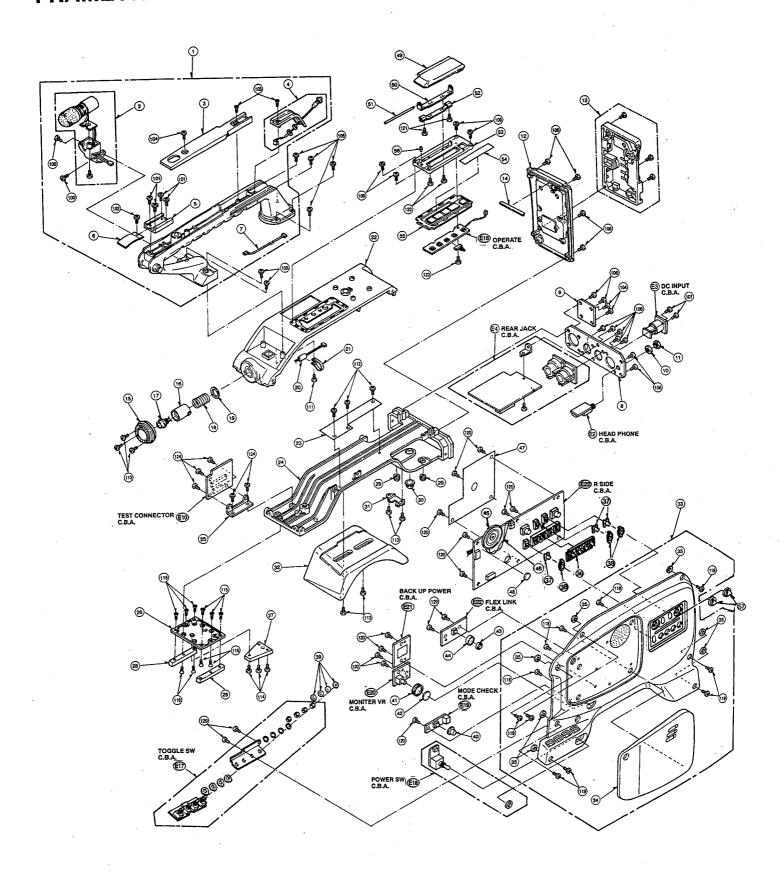
PRT-1

FRAME ASSEMBLY (2)

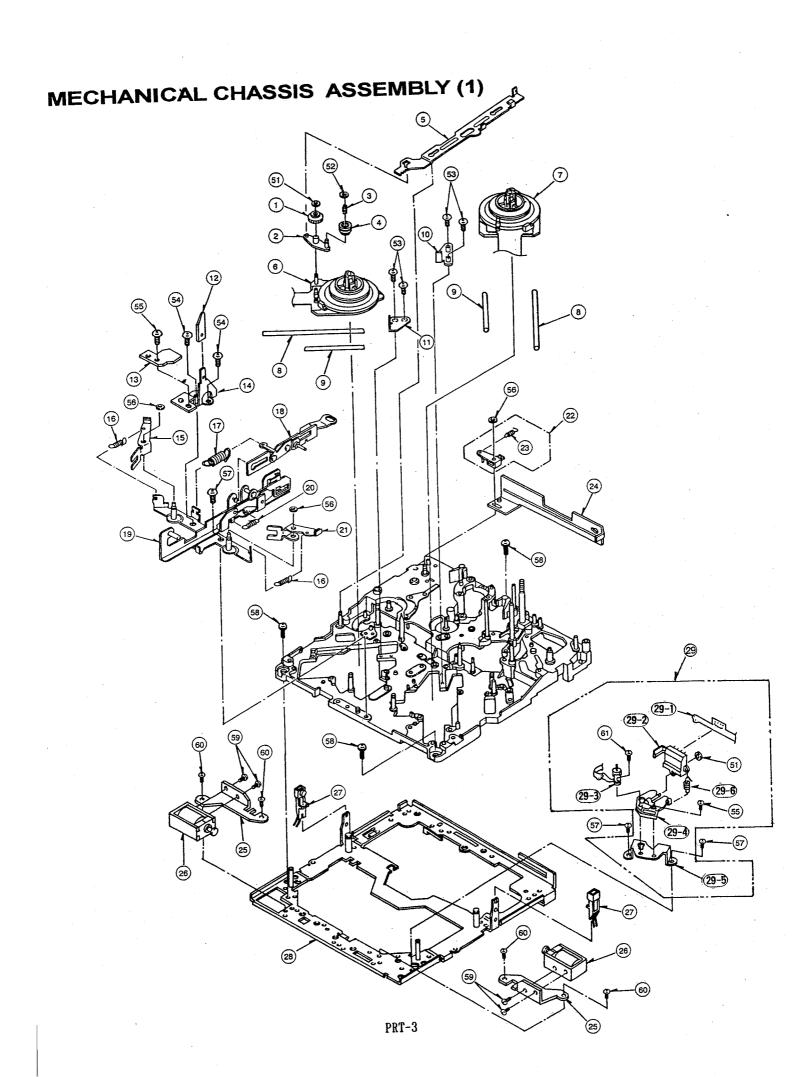
Components identified with the mark \triangle have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks		Ref. No.	Part No.	Part Name & Description	_	Remarks
						114	XSB4+6FC	SCREW	3	
1	VYH0259	HANDLE	1			115	XTS26+6J	SCREW	6	
!	VEK6714	MIC U.	1		L	116	XSS3+8FZS	SCREW	4	
3	VKF2721	HANDLE COVER	1			117	XYN26+C8FZ	SCREW	2	
4	VYF1888	TALLY COVER	1			118	XTV3+6G	SCREW	4	
5	V5MA0046A4	CAMERA SHOE	- 1			119	XSB3+10FZ	SCREW	7	
3 3	4G28145	SPRING	1			120	XYN3+K6RS	SCREW	2	
7	VEE0A89	MIC CABLE	1		-	121	XTB26+4FFZ	SCREW	2	
	VJH0986	JACK PLATE	<u>-</u>			122	XTV26+5F	SCREW	2	
B		BLANK PLATE				123	XTN2+5J	SCREW	1	
9	VGF0689		-		H	120	ATHE TO	GONCH	 •	
10	VMX0531	CLATCH SPACER			⊢				-	
11	VHN0194	NUT	1		<u> </u>				H	
12	VGM1058	REAR CASE	1		<u> </u>		ļ			
13	VJF1125	BATTERY HOLDER	1		L				ــ	
14	VGF0515	BATTERY CABLE HOLDER	1		<u> </u>		<u> </u>		<u> </u>	
15	VGQ3454	EVF HOLD BASE	1				1		L	
16	VGQ3455	EVF CONNECTOR HOLDER	1							
17	VEEOA87	EVF CABLE	1						_	
18	VMB2224	TENSION SPRING	1		Г					
19	VGF0514	SPACER	1		Γ					
20	VLP0186	FERRITE CORE	2						П	
21	VJF0980	CLAMPER	2				,	***************************************		
22	VGM1057	TOP CASE	1				1			
23	VGQ4441	FLEXIBLE HOLDER	1		—		1		T	
		BOTTOM CASE	1		1				H	
24	VGM1390	<u> </u>	1		- -				1	
25	VMP5375	C. B. A. ANGLE			-		1		\vdash	
26	VGM1277	FRONT FOOT BASE			-		1			
27	VGM1278	FRONT V EDGE			-		<u> </u>		\vdash	
28	VKA0299	FRONT FOOK	2		<u> </u>		1		\vdash	
29	VMG0954	REAR FOOT	2		<u> </u>				-	<u> </u>
30	VNG0643	BRAKER CAP	1		_				1	
31	VMP4896	BACK LOCK ANGLE	1		_				L_	
32	VMT0768	SHOLDER PAD	1		L		l		L	
33	VYP6654	SIDE CASE (R) 1U	1		L				L	
34	VMT0826	FACE PAD	1							ν.
35	VMX1558	NYLON WASHER	7		Г					
36	VGQ3415	OPERATION BUTTON HOLDER	1		Г				Γ	
37	VGU6028	SLIDE KNOB (A)	3		Г	***				
38	VMG0947	SLIDE KNOB RUBBER	3	· · · · · · · · · · · · · · · · · · ·	Г					
39	VMG0646	WATERPROOF SW INSULATION SH			Н				\vdash	****
	VGU4906	MODE CHECK BUTTTON	1		\vdash		 		\vdash	
40		VR KNOB	1				 			
41	VGU5694	VR KNOB CAP A	1.		H		 		\vdash	
42	VGH3360		1		\vdash		 		\vdash	<u> </u>
43	VGU6511	PUSH BUTTON	1		\vdash				\vdash	
44	VGQ3417	PUSH BUTTON HOLDER A	-		\vdash				-	
45	EAS2P104N	SPEAKER	1		_				-	
46	VEEOA98	SPEAKER CABLE	1		<u> </u>		ļ		⊢	
47	VSC4659	OPERATION SHIELD PLATE	1		L				┞	
48	VMT0539	CUSHION	_1		L	 ,	ļ		<u> </u>	
49	VKW1642	KEY BOARD DOOR	1		<u>L</u>				<u> </u>	
50	VMP3736	DOOR ANGLE	1						_	
51	VMS4947	OPERATION SHAFT	1		L					
52	VMC0883	OPERATION PLATE SPRING	1						L	
53	VGK2058	KEY OPERATION PANEL	1		Г					
54	VGH3019	KEY BOARD LABEL	1		Г					
55	VGU6577	KEY BOARD BUTTON	1		Г		1		Г	
56	VMG0657	CUSHION RUBBER	1						Г	
	V@U6512	VR KNOB	2				<u> </u>		1	
57	100012	711 10100	-		—		 			
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100	XSB3+8FZS	SCREW	2		\vdash				-	<u> </u>
101	XSN2+6FZ	SCREW	4		<u></u>		 		-	<u> </u>
102	XSN26+4FC	SCREW	1				ļ		1	
103	XSS3+6FZS	SCREW	2		L		L		1_	
104	XSB3+6FZ	SCREW	3		_				1_	
105	XSB4+16FZS	SCREW	2		L					
106	XSB3+8FZ	SCREW	4		Г				L	
107	XSN28+6FC	SCREW	2				1		f	
108	XSN26+6FZ	SCREW	5						Γ	
	XSB2+6FZ	SCREW	4		\vdash		!		_	
109			4		—					
110	XYN26+K16FZ	SCREW	1		—		 		\vdash	
111	XYN3+F10	SCREW			\vdash			·	\vdash	
112	XSB3+4	SCREW	3		\vdash		l	<u> </u>	-	
113	XYN3+F8	SCREW	2		\vdash				-	
		- 1						1		

FRAME ASSEMBLY (2)



Ref. No.	Part No.	Part Name & Description	cs	Remarks	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
NOTATION			I						1 a 10 a
V	/DG1189	IDLER GEAR A	1	<u> </u>					
2 V	/XL2614	IDLER ARM	1						
	/MB3011	IDLER SPRING	1						
	/XP1700	IDLER GEAR B	1						
	/MMO422	E-E ROD	1						
		S REEL MOTOR	1						
	VEMO634	T REEL MOTOR	1						
	VMS5923	REEL OUTER RAIL	2						
		REEL INNER RAIL	2						
	VMS5924	RAIL TABLE STOPPER (T)	1						
	VMA9727								
	VMA9726	RAIL TABLE STOPPER (S)	-1					-	
	VMD2588	BRAKE RELEASE	1						
3 /	VEK7694	CASSETTE DOWN PHOTO U.	_1					-	
4	VMA9729	L CASSETTE LOCK RELEASE BAS							· · · · · · · · · · · · · · · · · · ·
5	VXL2755	S BREAKE ARM	1						
6	VM23137	S BRAKE SPRING L	2						
17	VMB3139	SLIDE ROD SPRING	1						
	VXL2754	SLIDE ROD	1						
	VXA5892	BREAKE BASE	1						
	VMB2779	LOCK SPRING	1					L	
	VXL2756	T BREAKE ARM	1		[
	VXL2615	CONNECTION ARM B U.	1	· · · · · · · · · · · · · · · · · · ·	l				
	VMB2973	ARM RELEASE SPRING	1		l	-			
		CONNECTION ARM C U.	1					\vdash	
	VXL2653	SOLENOID BASE	2	·					
+	VMA9387		2					H	
	VSJ0216	BRAKE SOLENOID	2					\vdash	
	VEK7692	SENSOR HOLDER U.	-4			<u></u>			
	VXK1331	SUB CHASSIS	_		— —			\vdash	
	VXA5889	MIC BASE U	1		<u> </u>			<u> </u>	
29-1	VWJ1074	MIC FPC	_1					.	
29-2	VSS0509	MIC CONNECTOR	1		ļ			<u> </u>	
29-3	V\$\$0510	REC INHIBIT SWITCH	1					_	
29-4	VXA5633	M SWITCH BASE (1) U	1						
29-5	VMA9724	L-SWITCH BASE	1						
	VMB2958	SPRING	1		<u> </u>				
							}	_	
51	VMX1061	WASHER	2						
	VMX2391	CUT WASHER	1						
	XYN2+J5	SCREW	4						
	XQN2+CF4	SCREW	2					<u> </u>	
54	XQN2+A3	SCREW	2						
55	VMX0967	CUT WASHER	3						
56		 	3					 	
	XQN2+CF3	SCREW	3					-	
	XTV3+6F	SCREW	4						
	XQN2+A2	SCREW			 			┢	
60	XYN2+K4	SUREN	4		ļ	 		├	
61	XQN2+CJ5	SCREW	1		ļ	<u></u>	<u> </u>	-	
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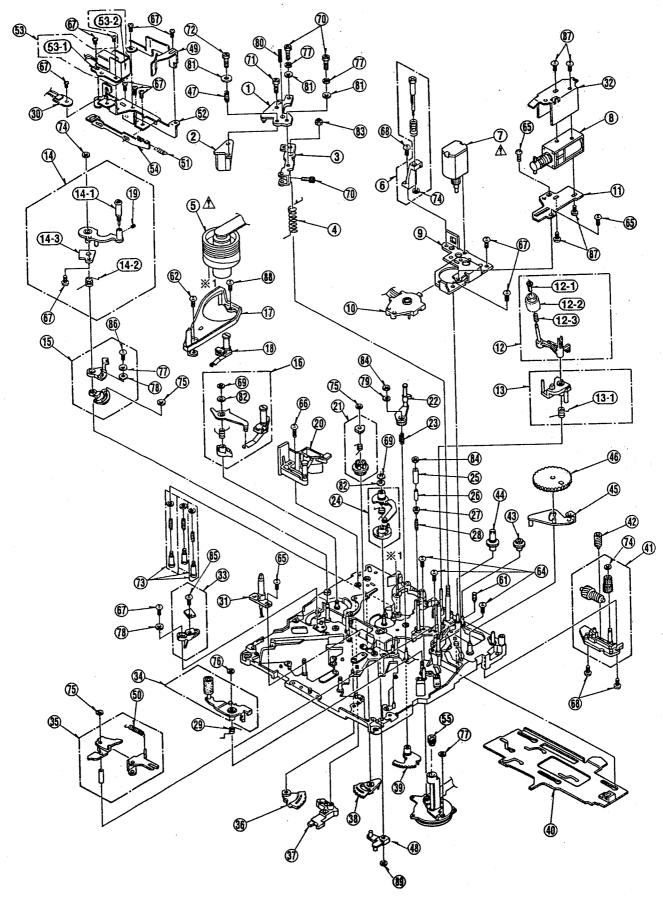


MECHANICAL CHASSIS ASSEMBLY (2) Components identified with the mark \triangle have the special characteristics for safety. We any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Pcs		Ref. No.	Part No.	Part Name & Description	+	
		. (C. LIELD DAOF (1) II	_		70	XVE2B4FZ	HEX SCREW		
	VXA5554	A/C HEAD BASE (1) U	1		71	XVE2B6FP	HEX SCREW	_	ļ
2	VBR0301	A/C HEAD	1		72	XVE2B12FP	HEX SCREW		
3	VXA5555	A/C HEAD BASE (2) U	1		73	VXQ0439	SCREW	:	
4	VMB2935	A/C HEAD HIGHT SPRING	1	i i i i i i i i i i i i i i i i i i i	74	VMX0967	CUT WASHER	1	
5	VEG1408	CYLINDER UNIT	1		75	VMX1061	WASHER		3
6	VXA5715	EMARGENCY SHIFT HOLDER U	1		76	VMX1079	CUT WASHER		
7	VEM0645	LOADING MOTOR (1) AU	1		77	XWA2B	WASHER	1	ı
8	VSJ0217	PINCH SOLENOID	1		78	XWE2	WASHER	1	
9	VXA5584	MOTOR ANGLE U.	1	4	79	XWE16VW	WASHER	1	
10	VES0814	MODE SW U	1		80	XXE2A6FP	HEX SCREW	1	
11	VMA9376	PINCH SOLENOID BASE	- 1		81	XWG2	WASHER	1	
12	VXL2748	CLEANING ARM AU	1		82	XWGV15Z32G	WASHER	1	
12-1	VMX2150	CLEANER ROLLER HOLDER	1		83	VHD0045	NYLON NUT		
	VXP1808	CLEANER ROLLER UNIT	1		84	VHN0312	NUT	1	·
12-2			-			XQN2+AQ3. 5FZ	 	-	
12-3	VMB3114	CLEANER ROLLER SPRING	1		85	1.6		-	
13	VXL2707	T2 ARM U.	1		86	XQN2+AJ5	SCREW	1	
13-1	VMB2932	T2 ARM SPRING	_		87	XQN2+A15	SCREW		
14	VXL2734	TENSION ARM AU.	1		88	XQN2+A4	SCREW	1	<u> </u>
14-1	VXP1761	TENSION ROLLER	1		89	VMX1394	CUT WASHER	<u></u>	
14-2	VMB2931	TENSION LEG SPRING	1		*	VXY1287	MECHANISM		
14-3	VXA5853	MAGNET HOLDER U	1					Γ	
15	VXA5791	TENSION LEG SPRING HOOK U	1					Γ	
16	VXL2709	S1 LOADING ARM U	1			1		Γ	T
17	VMD2533	LOADING RAIL	1					1	1
18	VXA5852	T1 BOAT U	1			1		H	
19	VAA3652 VHD0561	HEX SCREW	1			1	n	 	
		S POST BASE AU.	+		—	<u> </u>		 	-
20	VXA6052		1			 		\vdash	
21	VXP1683	T4 CONNECTION GEAR U.	+					\vdash	
22	VXL2772	T4 ARM U				ļ		⊢	
23	VMB2950	T4 THRUST SPRING	1			ļ		┡	
24	VXL2802	T LOADING ARM NU	1					╙	
25	VMS5906	T3 UPPER FRANGE	1					匚	
26	VMS5905	T3 SLEEVE	1					_	
27	VMS5904	T3 LOWER FRANGE	1					_	
28	VMB2929	T3 SPRING	1						
29	VMB2933	PINCH RELEASE SPRING	1						
30	VEK7927	INSULLATION SENSOR	1						
31	VEK7691	LED HOLDER U.	1						
32	VMA9411	PINCH SOLENOID ANGLE	1						
33	VXA5820	TENSION SENSOR U.	1	ž ř					
34	VXL2684	PINCH ARM U.	1					H	
35	VXL2588	PINCH GUIDE ARM U	1	(v) - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -					
36	VXA5570	T SECTOR GEAR U						⊢	
		TENSION LEG. GUIDE ARM U	1	· · · · · · · · · · · · · · · · · · ·				Н	
37	VXL2582				3 1 1 1 1 1 1 1 1			\vdash	
38	VXA5567	S SECTOR GEAR U	- 1					├-	<u> </u>
39	VXA5564	T4 SECTOR GEAR U	1		<u> </u>			ļ	
40	VXA5563	MAIN ROD U	1					_	
41	VXA5627	THRUST SHIFT HOLDER U.	_ 1					<u>L</u>	
42	VDG1166	MOTOR WARM GEAR	1		<u></u>			<u> </u>	
43	VDG1268	MOTOR EMARGENCY GEAR A(A)	1					L	
44	VDG1267	MOTOR EMARGENCY GEAR B(A)	1		L			Ĺ	
45	VXL2591	MAIN CAM ARM U	1					L	
46	VDG1168	MAIN CAM GEAR	1						
47	VMB2937	A/C HEAD ADJUST SPRING	1					Γ	1
48	VXL2600	EJECT ARM U	1					Γ	
49	VXA5770	T1 GUIDE U.	1			i -		-	
50	VMB2934	SPRING	1					-	
	VMB2934 VMB3051	CLEANER RETURN SPRING	1					1	
51		CLEANER BASE 1 U.	<u>'</u>					-	<u> </u>
52	VXA5768							-	
53	VXA5769	CLEANER SOLENOID U.	1			 	<u></u>		
53-1	VSJ0222	CLEANER SOLENOID	1	V				<u> </u>	
53-2	VMA9521	CLEANER SOLENOID BASE	1					_	
54	VMM0415	CLEANER INSULATTION	_1					<u></u>	
	1 20								
61	VHD0356	SCREW	1						
62	XQN2+A3	SCREW	1						
64	XQN2+A35FZ	SCREW	3					-	
			3					-	
65	XQN2+AM2	SCREW				,			<u> </u>
66	XQN2+AM4	SCREW	1		ļ	. : '			
67	XQN2+CF3	SCREW	12						
68	XQN2+CF4	SCREW	1						
	XUC12FP	E-RING	2		1				l
69	AUUIZIT		-						

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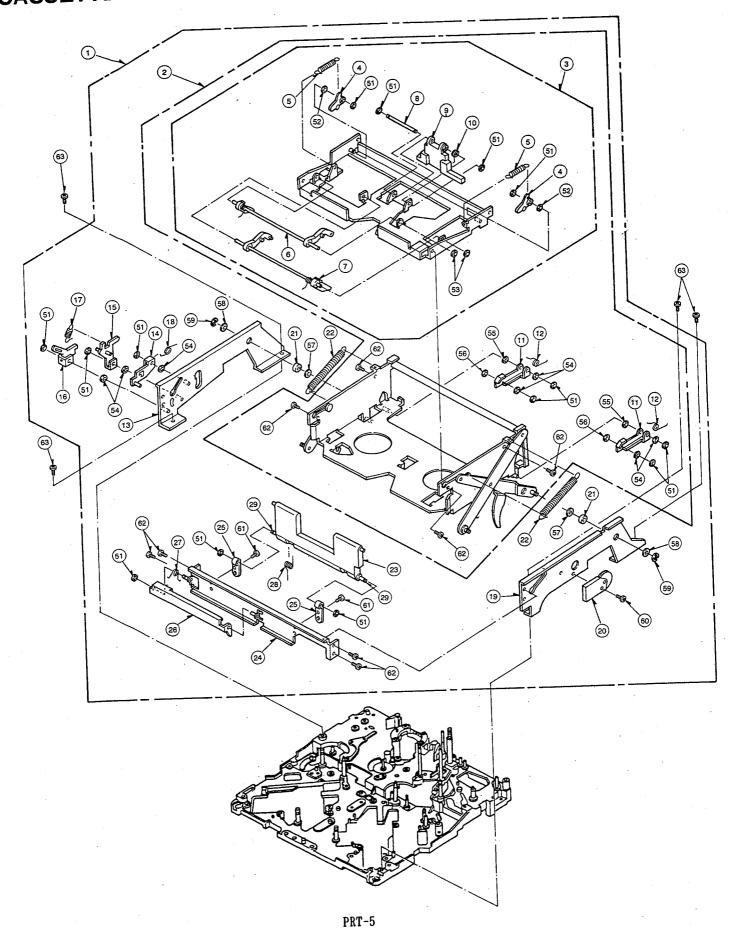
MECHANICAL CHASSIS ASSEMBLY (2)



PRT-4

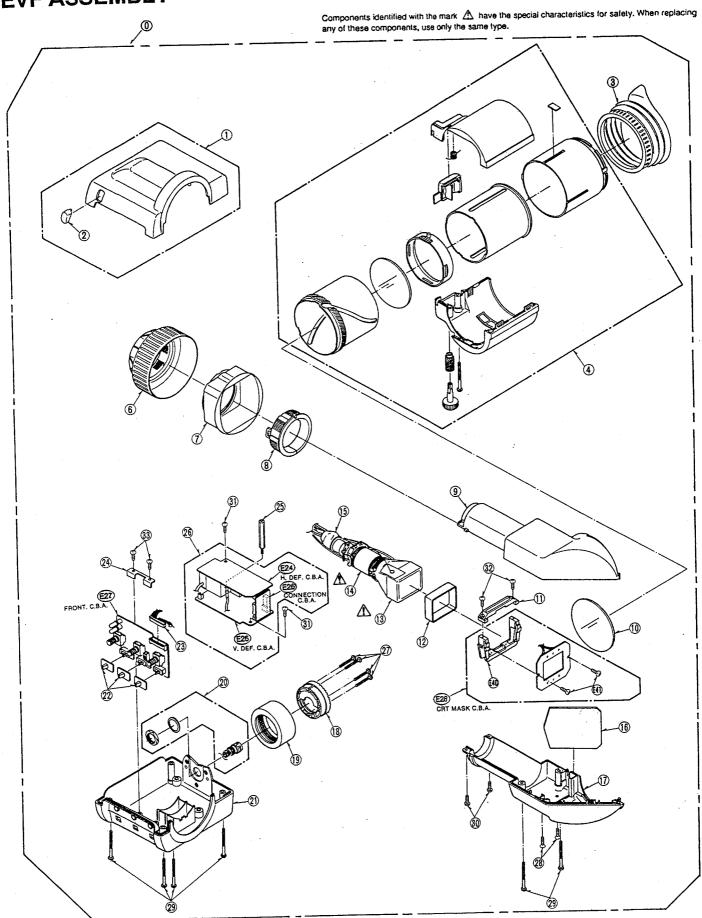
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	WAEDOO	CACCETTE UD II	1	and the second second	<u> </u>			-	
	VXA5900	CASSETTE UP U.	1		 			\vdash	
	VXA5901	HOLDER	1 -					\vdash	
	VXA5904	TOP PLATE	1					-	
	VXL2696	PRESSURE LEVER	2					-	
j	VMB3063	PRESSURE LEVER SPRING	2		 			-	
3	VXA5896	PROTECTOR SHAFT (2) L	1						
7	VXA5897	PROTECTOR SHAFT (2) R	1	4.4. · · · · · · · · · · · · · · · · · ·				<u> </u>	
3	VMS6198	PROTECTOR SHAFT	1		<u> </u>			_	
•	VMD2789	PROTECTOR SHAFT (1)	1						
10	VMB3135	SHAFT RELESE SPRING	1						
11	VML3259	RELEASE LEVER	2						**
12	VMB3140	LOCK RELEASE LEVER SPRING	2					Γ	
13	VXA5922	SIDE PLATE (L)	1	· · · · · · · · · · · · · · · · · · ·					
14	VXL2740	RATCHET ARM	1				, , , , , , , , , , , , , , , , , , , ,		
	VXL2765	RATCHET LOCK LEVER	1					┰	
15		RATCHET LEVER	1				7	H	
16	VXL2766		1		<u> </u>	 			
17	VMB2981	RATCHET SPRING						-	
18	VMB3146	LOCK LEVER SPRING	1		<u> </u>			╫	
19	VMA9719	SIDE PLATE (R)					<u> </u>	-	
20	VDG0387	DUMPER	1				<u> </u>	-	
21	VDP0967	MAIN ARM ROLLER	2			<u></u>		-	ļ
22	VM83133	UP SPRING	2		 			-	
23	VXA5925	PROTECTOR PLATE	1			<u> </u>	<u></u>	 	
24	VXA5898	BACK PLATE	1		 		<u></u>	<u> </u>	
25	VMD2793	SHAFT	2		L			_	
26	VML3267	RATCHET TIMING LEVER	1					L	
27	VMB2982	SPRING	1					L	
28	VMB3134	PLATE RELEASE SPRING	1					L	
29	VMS6211	PROTECTOR PLATE SHAFT	1						
	+	1			l f				
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	-	ļ	~						
	-	CUT WASHER	14		l			1	
51	VMX0967		2					 -	
52	XWGV2D5G	WASHER						├	
53	VMX1079	CUT WASHER	2		ļ 			┼	
54	XWGV2Y5G	WASHER	7					┼-	
55	XWGV2Z5G	WASHER	2		 	ļ		 -	
56	XWGV2F5G	WASHER	2					-	·
57	XWGV4Y6G	WASHER	2					-	ļ
58	XWGV3Y6G	WASHER	2				<u> </u>	ـ	
59	XUC2FP	E-RING	2					-	
60	XYN2+C8	SCREW	1					-	
61	XQN2+A4	SCREW	2		 			ļ	
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CASSETTE COMPARTMENT ASSEMBLY

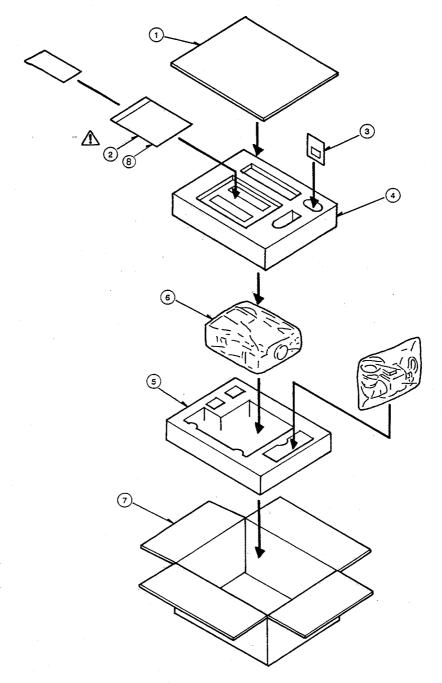


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1	0 1	/EQ1579	EVF UNIT	1	(RTL)					
1										
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4 NYCORD VICTOR 100 CON THIS CONT IN 1										
Modern M				_						
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11 Worse OFT PARKER (2) 1				—						
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182 WSCASE OF CASE DITION 1 1				-		1				
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18				-						
10 MPSASS EVF CARRIDO 1 1						1				
METHOD NEW MONE COLOR				!						
21 V98140 SEVE MAIN CASE LORSE U. 1 22 V982940 SLUDE MOBB										
22 W32584 FRONT ONLE 1										
29 WESSAD FONT OMES 1				+						
94 NPG263				+						
25 MOSSIGN SMARR 1										
27 NIGHCHAFZ SOREM 4 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				1						
98				Г						
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98	27	XYN3+C14FZ	SCŔEW	4				'.	Ĺ	
90 XTV4-404 SOREM 2 2			SCREW	2						
51 XYR2-HGPR SCREW 2 2 3 3 XTR3-HG SCREW 2 2 XTR3-HG SCREW 2 XTR			SCREW	6						
52 XR2-106 SAREW 2 2			SCREW	2						
33 XTM3-60 OREM 2 2	31	XYN26+K6FR	SCREW	2						
	32	XTN2+10G	SCREW	2						
	33	XTN3+6G	SCREW	2						
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EVF ASSEMBLY



PACKING PARTS ASSEMBLY



PACKING PARTS ASSEMBLY

Ref. No.	Part No.	Part Name & DescriptionPcs	Remarks	Ref. No.	Part No.	Part Name & Description	Pcs Remarks
1	VPN3922	TOP PAD 1					
2	VQT7073	OPERATING INSTRUCTIONS 1					
3	VEJ1672	BATTERY ADAPTOR U 1					
4	VPN4613	CUSHION (UPPER) 1					
5	VPN4614	CUSHION (LOWER) 1					
6	VPF0884	POLYETHYLENE BAG 1					
7	VPG8917	PACKING CASE 1		Ĺ			
8	VXF0151	EMERGENCY EJECT U. 1					
				<u> </u>			_
							<u> </u>

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks	Ref. No.	Part No.	Part Name & Description	Pes	Remarks
		SERVO P. C. BOARD	_	(RTL)					
		HEAD PHONE P. C. BOARD		(RTL)				F	
				(RTL)					
		DC INPUT P. C. BOARD							
■ E4	VEP84297B	REAR JACK P.C. BOARD	_	(RTL)	<u> </u>				
■ E5	VEP80A43A	AV OUT P. C. BOARD	_1	(RTL)		<u> </u>		-	
■ E6	VEPOOY56A	SERVO FLEXIBLE P. C. BOARD	1	(RTL)				-	
■ E7	VEP81179A	POWER P. C. BOARD	1	(RTL)					
	VEP83356B	VTR MAIN P. C. BOARD	1	(RTL) INCLUDING E9					
■ E9	VEP84307A	AGC SUB P. C. BOARD		(RTL) INCLUDED E9					
■ E10	VEP86258A	TEST PLUG P. C. BOARD	_1	(RTL)					
■ E11	VEPOOY55A	EVR FLEXIBLE	1	(RTL)		· · · · · · · · · · · · · · · · · · ·		-	
■ E12	VEP22251A	SENSOR P. C. BOARD	1	(RTL)					
■ E13	VEP23422A	PROCESS P. C. BOARD	1	(RTL)					
■ E14	VEP80A32A	ATW SENSOR P. C. BOARD	1	(RTL)					
■ E15	VEPOOU25B	VTR START P. C. BOARD	1	(RTL)					
■ E16	VEP86143B	OPERATE P. C. BOARD	1	(RTL)					
## E17	VEP80A15A	TOGGLE SW P. C. BOARD	1	(RTL)				-	
■ E18		POWER SW P. C. BOARD	1	(RTL)				-	
		MODE CHECK P. C. BOARD	<u> </u>	(RTL)					
■ E19	VEP80A17A								
₩ E20	VEP80A18A	MONITOR VR P. C. BOARD		(RTL)					
■ E21	VEP80A19A	BACK UP P. C. BOARD	1	(RTL)					
■ E22	VEP80A21A	FLEX FING P. C. BOARD	1	(RTL)				_	
■ E23	VEP86264A	R SIDE P. C. BOARD	1	(RTL)				_	
■ E24	VEP27086A	H-DEF P. C. BOARD	1	(RTL)				_	
■ E25	VEP27087A	V-DEF P. C. BACRD	_1	(RTL)					
■ E26	VEP27088A	CN P. C. BOARD	1	(RTL)				-	
■ E27	VEP27089A	EVF FRONT P. C. BOARD	1	(RTL)					
■ E28	VEP27090C	EVF CRT P. C. BOARD	1	(RTL)					
■ E29	VEP83357A	PRE SHUFFLE P. C. BOARD	1	(RTL)				F	
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VEP82212B

Peer No. Pee	/EP82212	B									AJ-D200HE
B 10	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks		· · · · · · · · · · · · · · · · · · ·		_	_	Remarks
CREATION CREATION		VEDOGG10B	SEDIMO B C BONDO	1	(DTI.)				-		
Company Comp	■ E1	VEP82212B	SERVO P. C. BUARD		(KIL)					-	
GROWN-DEATE CARPONTED ON 19						ļ			t	4	
DIRECTION DIRECTION CAMPACTER OF 1879 0.10 1	C100, 01	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	2				<u> </u>	t	1	· · · · · · · · · · · · · · · · · · ·
COUNTY C		ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1		C351	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U		1	
Column C	C107	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1		0353, 54	ECUM1H333KBN	C. CAPACITOR CH 50V 0. 033U		2	
DEFFICION DEFF	C108	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1		C357~59	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	\perp	3	
Column Column Company Column	C109	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		C401-04	 		+	-1	
	C110			1			· · · · · ·		\bot	4	
									+	3	<u></u>
Commonweal Com								· · · · · · · · · · · · · · · · · · ·	+	-	
Company				-					+	-1	
Time							 		+	-+	
Color				1					十	4	
Color				1			27 To 10 10 10 10 10 10 10 10 10 10 10 10 10		\dagger	1	
CHAPTING COMPAND TO BE ON PART CHAPTING AND SECTION COMPAND TO BE ON PART CHAPTING AND SECTION CHAPTIN			C. CAPACITOR CH 50V 100P	1		C433	ECUX1H103KBV	C. CAPACITOR CH SOV 0.01U	T	1	
EXECUTION PROPERTY OF COMPACTION OF 150 PT 1		ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		C434	ECEV1HV3R3Q	E. CAPACITOR CH 50V 3. 3U	T	1	
Color	C128	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1		C435	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	Ι	1	
Control Cont	C129	ECUX1H182KBV	C. CAPACITOR CH 50V 1800P	1		C504	ECEVOJV3300	E. CAPACITOR CH6. 3V 33U	L	1	
Continue	C130			_		<u> </u>		· · · · · · · · · · · · · · · · · · ·	+	-+	
Color				-					-	-+	
Color				-					+	4	
Control Cont							 	 	+	#	
COLOR CAMPACTOR ON 16 V V V V CAMPACTOR ON 16 V V V V CAMPACTOR ON 16 V V V V V V V V V V				2			 		+		···
C144-96				1					+		
C1474 COLUMN 1005W CAPACITOR OF 150 V 1000 1				1		-			-+-	-+	
Control Cont				3	· .	-	!		\dagger	#	
CREST-100 CRES				1					\dagger	1	
CORDINATION CONTINUENCY			·	5		0705			t	1	
COUNTY C				1		C706, O7	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	T	2	
C212, 13 EQUINISSARM Q. CAPACITRE (SEV 9, O.SBU 2 C809 CEPAL/STOOK E. CAPACITRE (SEV, S. V. S. V	C208-10	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	3		C801	ECUX1E104KBN	C, CAPACITOR CH 25V 0.1U	Ι	1	
C217 CENT-NYZORD C. CAPACTITOR CHIS 97 221 CENT. CENT. CONTROL C. CAPACTITOR CHIS 97 C. CAPACTITOR CHIS 97	C211	ECUX1E104KBN	C. CAPACITOR CH 25V 0. 1U	1		C804-08	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	I	5	
C218-20 C0IXI HI CORNEY C. CAPACITOR CH 50V 0.01U 3 C0812, 12 C0812HOF22. C. CAPACITOR CH 50V 0.03U 2 C0817 C0817	C212, 13	ECUM1H333KBN	C. CAPACITOR CH 50V O. 033U	2		C809	ECEVOJV3300	E. CAPACITOR CH6. 3V 33U	\perp	1	
C221, 22 COMINISSISSIND C.APACITOR ON 50V 0, 03300 2 COST CO	C217	ECEVOJV220Q								-	
C223 CEVITW2R20 C. CAPACITOR ON 50V 2. 20 1	C218-20	ECUX1H103KBV							+-		· · · · · · · · · · · · · · · · · · ·
C2244 EDIXI E 10460N C. CAPACITOR OF 25V 0. 1U 1				-	····		 	 	+-		
C228-30 CEUXTETO-MERIN C. CAPACITOR CRI 25V O. 1U 3 DIOD MA142K DIODE 1 DIOD MA142K DIODE 1 DIOD DIODE 2 DIODE DIO		ļ		-				<u></u>	+-	-+	
C224-9 EDIXITETORISM C. CAPACITOR CH 25V 0.1U 0 DIO.					**************************************	0906	ECOXIHIOODCV	G. GAPACITOR OF SOV TOP	╁		
CARD COUNTINGS/MISS C. CAPACITOR CH 16V 10 1 1 10 10 10 10 10						D100	WA142K	DIODE	+	1	
C241 EQUITIOTORNII C. CAPACITOR OH 18V 1U 1 1 1 2000. OH MAT36 DIODE 1 2 2 2 2 2 2 2 2 2			 				· · · · · · · · · · · · · · · · · · ·	+	-1-		
C242 EQUIXIHA7DLOV C, CAPAGITOR CH 50V 47P 1 D200, 01 MA143 D10DE 2 D200, 01 D202 MA728 D10DE 1 D202 MA728 D10DE 1 D203 MA728 D10DE D203 MA728 D1				1		D103		ļ . "	T	1	
C243				1		D200, 01	MA143	DIODE	1	2	
C245 ECUXIHATOJUTY C. CAPACITOR CH 50V 47P 1 D204 MA728 D10DE 1		ECUX1H332KBV	C. CAPACITOR CH 50V 3300P	1		D202	MA728	DIODE	I	1	
C249-48 ECEVOJUS3000 E. CAPACITOR CHG. 3V 33U 3 D205 MA736 D10DE 1	C244	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1		D203	MA736	DIODE	-		
C250 E0EVGL/V3300 E. CAPACITOR CHI 6.3	0245	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1		D204	MA728		+		
C251 EQUITIONS EQUATION	C246-48	ECEVOJV330Q							-	-	
C221 ECUXIHIOLOGY C. CAPACITOR CH 50V 100P 1 D302 MA736 D10DE 1 D302 MA736 D10DE 1 D303 MA728 D10DE 1 D303 MA728 D10DE 1 D304 MA736 D10DE 1 D401 MA736 D10DE 1 D402 D402 D404 MA736 D10DE 1 D402 D402 D404 MA736 D10DE 1 D402 D402 D404 MA736 D10DE D402 D404 D402 D402				1.					+		· ·
C252 ECUMICIOSEMN C. CAPACITOR CH 16V 1U 1 D303 MA728 D10DE 1				_1					+	-	
D304 BCUXH47TJCV C. CAPACITOR CH 50V 470P 1 D304 MA736 D10DE 1 D401 MA736 D10DE 1 D401 MA736 D10DE 1 D402 D402				1				DIODE	+-	-1	
C255 ECUNITIOTOSKBM C. CAPACITOR CH 16V 1U 1 1 1 1 1 1 1 1				1					+-	-1	
C256 EQUINITATION C. CAPACITOR CH SOV A70P 1 D402-05 MA143 D10DE 4				1					-		
DAGE MATAGE DIODE 1 DAGE MATAGE DIODE 1 DAGE DAGE DIODE 1 DAGE DAGE DIODE 1 DAGE DAGE DAGE DIODE 1 DAGE DAGE DIODE 1 DAGE D				1		ļ				-1	
C307, 08 ECUXIETO4KBN C. CAPACITOR CH 25V O. 1U 2 D502-04 MA142WA D10DE 3				2				DIODE	Γ	1	
C309 ECUX1H103KBV C. CAPACITOR CH 50V O. OIU I D505 MA142MK D10DE I D701 MA143 D10DE I D701 MA143 D10DE I D702 MA3062M D10DE I D703 MA748 D10DE I D703 MA748 D10DE I D704 MA3062M D10DE I D705 MA748 D10DE I D705 MA748 D10DE I D705 MA748 D10DE I D705 MA748 D10DE I D706 MA3062M D10DE I D706 MA748 D10DE I D706 MA748 D10DE I D706 MA748 D10DE I D706 MA748 D10DE I D707 MA748 D10DE I D708 MA748 D10DE I D709 MA748 D10DE D709 MA748 D10DE I D709 MA748 D10DE D709 MA748 D10DE I D709 MA748 D10DE I D709 MA748 D10DE I D709 MA748 D10DE I D709 MA748 D10DE D709 MA748 D10				2		D502-04	MA142WA	DIODE		3	
C310				1		D505	MA142WK	DIODE	+	-	
C312 ECUX1E104KBN C. CAPACITOR CH 25V O. 1U 1 D703 MA308 DIDDE 1 D704 MA3056-L DIDDE 1 D705 MA308 DIDDE D705 D705		VCC0037F432	C. CAPACITOR 432P	1		D701			╌	-1	
C318, 19 VCEO180 CAPACITOR C C C C C C C C C	0311	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	1					+-	-	
DB01-03 MA142WK DIODE 3	C312								+-		
C322 ECUNICIOSKBM C. CAPACITOR CH 16V 1U 1 D807 MA142WK DIODE 1	C318, 19								+	+	
C323 EGEVIEVAR7Q E. CAPACITOR CH 25V 4. 7U 1 D811, 12 MA142WK DIODE 2				-1					+	-	
C324, 25 ECUX1E104KBN C. CAPACITOR CH 25V O. 1U 2 D813 210004 D10DE 1									+		
C326 ECUMICIOSKBM C. CAPACITOR CH 16V 1U 1 D814-16 MA142WK D10DE 3									+-		
C327-29 CUXINITIOSKBY C. CAPACITOR CH 50V O. OIU 3 D817-28 MA738 DIODE 12						ļ			+-	-	
C330 ECUXIE104KBN C. CAPACITOR CH 25V O. 1U 1 D829 NSQ03A04 DIODE 1				1							A A A A A A A A A A A A A A A A A A A
C331 ECUM1H333KBN C. CAPACITOR CH 50V O. O33U 1 D830 MA8051-H DIODE 1 O332 ECUM1C105KBM C. CAPACITOR CH 16V 1U 1 D831, 32 NSQ03A04 DIODE 2 O333 ECEV1EV4R7Q E. CAPACITOR CH 25V 4. 7U 1 D833 MA142WK DIODE 1			·						+	-+-	
C332 ECUM1C105KBM C. CAPACITOR CH 16V 1U 1 D831, 32 NSQ03A04 DIODE 2 D833 ECEV1EV4R7Q E. CAPACITOR CH 25V 4.7U 1 D833 MA142WK DIODE 1 D833 MA142WK DIODE 1 D833 DRAW DIODE 1 D833 DRAW DIODE 1 D833 DRAW DIODE D833 DRAW D834 D835										-	
C333 ECEVIEVAR7Q E. CAPACITOR CH 25V 4. 7U 1 D833 MA142WK DIODE 1				1					1	2	
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	Part No.	Part Name & Description	Pcs	Remarks Ref. No.	Part No.	Part Name & DescriptionPcs	Remarks
Ref.No.	MN6755486H8E	10	1	Remarks Ref. No.	2SD1819A-R	TRANSISTOR 1	Nomest NO
G100 G101	SC371025AVFU	10	1	Q816, 17	2SB1073-R	TRANSISTOR 2	
		(0	1	Q819	2SD1819A-R	TRANSISTOR 1	
0103	UPC4556G2		-	Q820	2SB1219A-R	TRANSISTOR 1	
C104	MN13821-S	10	⊢	Q821, 22	2SD1624-S	TRANSISTOR 2	
C105	TC7WO4FU	10	1			 	
C110	XC62AP3002P	10	1	Q823	2SB1219A-R	TRANSISTOR 1	
0200, 01	AN3890FBS	1.0	2	Q825	2SD1819A-R	TRANSISTOR 1	
0202, 03	MDC05	IC	2	Q826, 27	2SB1073-R	TRANSISTOR 2	
G204, Q5	NJM2904M	10	2	Q829	2SD1819A-R	TRANSISTOR 1	<u> </u>
C207	NJM2904M	IC	1	0830	2SB1219A-R	TRANSISTOR 1	
C208	TA75W393FU	10	1	Q831, 32	2SD1624-S	TRANSISTOR 2	
C209	NJM2904M	10	1	Q833	2SB1219A-R	TRANSISTOR 1	
IC210	TA75W393FU	10	1	Q835	2SD1819A-R	TRANSISTOR 1	
10301	TL1451CNS	10	1	Q836, 37	2SB1073-R	TRANSISTOR 2	
	AN3841SR	10	2	Q839	2SD1819A-R	TRANSISTOR 1	
		10	2	Q840	2SB1219A-R	TRANSISTOR 1	
0401, 02	TA75W393FU		1	Q841, 42	2SD1624-S	TRANSISTOR 2	
C403	NJM2904M	10	-			 	
C404	MC14013BF	10	1	Q843	2SB1219A-R		
C406, 07	UPC4558G2	10	2	Q903	2SD1819A-R	110000000	
C409, 10	NJM2904M	10	2	Q905-08	2SD1819A-R	TRANSISTOR 4	
C501	VS12407B	10	1	Q914	2SD1819A-R	TRANSISTOR 1	
C501 0:	VS12407B	10	1	Q918	2SD1819A-R	TRANSISTOR 1	
C502	TC7WUQ4FU	10	1	Q922	2SD1819A-R	TRANSISTOR 1	
C503	TA75W393FU	10	1	Q924	2SD1819A-R	TRANSISTOR 1	
C701	TA75W393FU	IC	1	Q926	2SD1819A-R	TRANSISTOR 1	
10702	BA6219BFP-Y	IC	1	Q930	2SD1819A-R	TRANSISTOR 1	
10702 10801	MC14538BF	IC	1		1	1	_
10802	NJM2904M	10	1	QR101, 02	UN5213	TRANSISTOR-RESISTOR 2	·
10803	MC14538BF	10	+	QR108	UN5213	TRANSISTOR-RESISTOR 1	
	MC74HC11F	10	<u>'</u>	GR150	UN5213	TRANSISTOR-RESISTOR 1	
10804		ic	1	QR305	UN5113	TRANSISTOR-RESISTOR 1	
10805	MC14049UBF	10	┼-'		UN5213	TRANSISTOR-RESISTOR 1	
			 -	QR306		 	
L101	VLQ0319K101	COIL 100UH	1	QR504	UN5213	TRANSISTOR-RESISTOR 1	
L102-04	VLQ0319K100	COIL 10UH	3	QR701, 02	UN5114	TRANSISTOR-RESISTOR 2	
L200	VLQ0407120M	COIL 12UH	1	QR703, 04	UN5214	TRANSISTOR-RESISTOR 2	
L201, 02	VLQ0407151K	COIL 150UH	2	QR801	UN5213	TRANSISTOR-RESISTOR 1	
L301	VLQ0214	COIL	1	QR804	UN5214	TRANSISTOR-RESISTOR 1	
L302, 03	VLQ0407151K	CO1L 150UH	2	QR809, 10	UN5214	TRANSISTOR-RESISTOR 2	
L501	VLQ0319K100	CO1L 100H	1	QR813	UN5214	TRANSISTOR-RESISTOR 1	
L701	VLQ0319K101	COIL 100UH	1	QR814	UN5114	TRANSISTOR-RESISTOR 1	
			Τ	QR818	UN5114	TRANSISTOR-RESISTOR 1	
P1, P2	VJP3949A080H	CONNECTOR (MALE)	2	QR824	UN5114	TRANSISTOR-RESISTOR 1	
P600	VJP3172D003	CONNECTOR (MALE)	1	QR828	UN5114	TRANSISTOR-RESISTOR 1	
P601	VJP3172D002	CONNECTOR (MALE)	1	QR834	UN5114	TRANSISTOR-RESISTOR 1	
P602	VJP3172D004	CONNECTOR (MALE)	1	QR838	UN5114	TRANSISTOR-RESISTOR 1	
		CONNECTOR (MALE)	+;	QR844-46	UN5214	TRANSISTOR-RESISTOR 3	
P603	VJP3172D002		+:	QR903-07	UN5214	TRANSISTOR-RESISTOR 5	
P604	VJP3172D003	CONNECTOR (MALE)	⊢:		 		
P605	VJP3518B002	CONNECTOR (MALE)	'	QR913	UN5214	TRANSISTOR-RESISTOR 1	
P606	VJP3172D003	CONNECTOR (MALE)	<u> '</u>	QR915	UN5214	TRANSISTOR-RESISTOR 1	
P607	VJS3801B010	CONNECTOR (FEMALE)	1	QR917	UN5214	TRANSISTOR-RESISTOR 1	
P608	VJP3518B002	CONNECTOR (MALE)	1	QR919-23	UN5214	TRANSISTOR-RESISTOR 5	
P609	VJP3172D002	CONNECTOR (MALE)	1	QR925	UN5214	TRANSISTOR-RESISTOR 1	<u> </u>
P610	VJP3518B003	CONNECTOR (MALE)	1	<u> </u>	<u> </u>		
P611	VJP3518B002	CONNECTOR (MALE)		R102, 03	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100 2	
P612	VJP3172D004	CONNECTOR (MALE)	1	R104	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K 1	
P613	VJS3406B015	CONNECTOR (FEMALE)	1	R112	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K 1	
P614, 15	VJS3422B017	CONNECTOR (FEMALE)	2	R118	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100 1	
P616	VJS3422B019	CONNECTOR (FEMALE)	1	R120-26	ERJ3GEYJ101	M. RESISTOR CH 1/15W 100 7	
P617	VJP1232T	CONNECTOR (MALE) 5P	† ;	R128	ERJ3GEYG682	M. RESISTOR CH 1/16W 6. BK 1	
	VJP3125B002	CONNECTOR (MALE)	1	R130	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K 1	
P618		CONNECTOR (MALE)	+;	R131	ERJ3GEYJ334	M. RESISTOR CH 1/16W 330K 1	
P619	VJP3809E060		+-		ERJ3GEYJ823	M. RESISTOR CH 1/16W 82K 1	
P620	VJP33580022	CONNECTOR (MALE)	╀╌	R132			
	 	<u> </u>	<u> </u>	R133	ERJ3GEYG822	M. RESISTOR CH 1/16W 8. 2K 1	t
0100, 01	2SD1820-R	TRANSISTOR	2	R134	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K 1	
Q103, 04	2SD1820-R	TRANSISTOR	2	R135	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K 1	
Q105	2SB1219A-R	TRANSISTOR	1	R136	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K 1	
Q106	2SD1819A-R	TRANSISTOR	1	R137	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K 1	
0200, 01	2SB1073-R	TRANSISTOR	2	R138	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100 1	
Q301, 02	2SB1073-R	TRANSISTOR	2	R139	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K 1	
Q401	2SB1219A-R	TRANSISTOR	1	R140	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K 1	
	2SD1819A-R	TRANSISTOR	2	R141	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33 1	
Q502, 03 Q702		TRANSISTOR	1	R142	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K 1	
	2SB1073-R		 			}	
	2SD1624-S	TRANSISTOR	1	R143	ERJ8GEYJ271	<u> </u>	
Q703			l 1	R144	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K 1	
Q703 Q811	2SB936A-Q	TRANSISTOR	- -				
Q703		TRANSISTOR TRANSISTOR	1	R145	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220 1	

Bell No. Part No.										AJ-DZUUHE
Section Properties Resistration of Liver 150 1 20 20 20 20 20 20 20	Ref. No. P	Part No.	Part Name & Descript	tionPo	s Remarks	Ref. No.	Part No.	Part Name & Description	Pc	Remarks
SAMPTION				_				 	_	
SAMPHY							i — — —			
Miles Malestron Malestro				-	·		1		-	
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March Marc					·				-	
BADDER ADDRESS ADDRE							 		<u> </u>	<u> </u>
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1955 SAUSTINGER AND STATE OF LIVER A. S.					 		 		 	
					1				-	
RESIDENCE PROJECT PR	R155 ERJ	J3GEYG682	M. RESISTOR CH 1/16W 6.	8K	1	R304	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	
Telephone December 101 March 102 1 1 1 1 1 1 1 1 1	R156, 57 ERJ	J3GEYOROO I	M. RESISTOR CH 1/16W	0	2	R305	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
BRIT BRIDBERTON BRISTORY ON LYNE 1.6. 1 1.0.	R158 ERJ	J3GEYJ101	N. RESISTOR CH 1/16W 1	00	1	R306	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	
BATT BADECTION Resistance of LY/New 100K 1	R160-66 ERJ	J3GEYJ101	M. RESISTOR CH 1/16W 1	1.00	7	R308-10	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3	B
BAJESTATION RESISTATE ON 1/100 1	R167 ERJ	J3GEYG152	M. RESISTOR CH 1/16W 1.	5K	1	R312	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
REF BANGEY ARCHITCH OF 17/08 200 1	R172 ERJ	J3GEYJ103	M. RESISTOR CH 1/16W 1	ОК	1	R313, 14	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
RETIFUL DESCRIPTION DESCRIPTION OF LEVER 100 1	R178 ERJ	J3GEYJ101	M. RESISTOR CH 1/16W 1	.00		R315	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1	
REASON DESIGNATION CONTINUE		E0034E223	M. RESISTOR CH 1/10W 2	2K	2	R316	ERJ3GEYJ474	M. RESISTOR CH 1/16W 470K	1	
BRIDE BASEFFYIND RESISTOR OF 1/708 100 1		J3GEYJ103	M. RESISTOR CH 1/16W 1	юк	1	R317	ERJ6GEYG154	 	1	
RESISTAND PRODUCTION RESISTAND ON 17/98 100 1							1	 	1	
BRIDGE B					1		1	 	1	
BADDEN-1773 BADDEN-1774					<u> </u>				1	
ENTER-19 DAUGHT/223 RESISTOR OR 1/16# 100 A RESISTOR OR 1/16# 100 A RESISTOR OR 1/16# 100 A RESISTOR OR 1/16# 101 A RESI					1	1	+		-	
BRIDE DAUGHT/MAN REGISTOR ON H./SER 10KK 1 1 1 1 1 1 1 1 1					·				1	
RESPONDED RESPONDED ON 1/168 0 1									┞.	
REDO							 		-	
BROOK OF ALL MARKET/NEW BRESTOR OF LY/NW SEP S							·			·
EROS							 		2	
Record Recondecision Record (1970 30K 1 1 1 1 1 1 1 1 1					1	<u></u>			1.1	
R260 OREGONESEZA RESISTOR OR 17/09 200 1					2			· 	-	·
ROAD-FINE READ STORM OF 1/168 A.76 1	R205 VRE	E0034E333	M. RESISTOR CH 1/10W 3	33K		R342	 	M. RESISTOR CH 1/16W 10K	1	
RECORD SENDERCY AND RESISTOR ON 17 /09 APR 1	R206 VRE	E0034E223	M. RESISTOR CH 1/10W 2	22K	<u> </u>	R344	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
RESIDENCIADO RESISTOR OH 1/88 1	R208 ERJ	J3GEYG472	M. RESISTOR CH 1/16W 4.	7K	1	R346-49	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	4	
Ref BHABERY-LINE RESISTOR OF LY/OW 1.0X 1 R801 BHABERY-LINE BH	R209 ERJ	J3GEYJ473	M. RESISTOR CH 1/16W 4	17K .	1	R356, 57	ERJ3GEYJ471	M. RESISTOR CH 1/16W 470	2	
RETIO GRADEFYLIDE RESISTOR OF 11/09 1K 1 RESISTOR OF 11/09 1K 1 RESISTOR OF 11/09 1K 1 RESISTOR OF 11/09 1K 1 RESISTOR OF 11/09 2K 1 RESISTOR OF 11/09 1K 1 RESISTOR OF 11/09	R210 ERJ	J8GEYJ1RO	M. RESISTOR CH 1/8W	1	1	R358	ERJ3GEYJ330	N. RESISTOR CH 1/16W 33	1	
R211 M. BAJOETA/170 R. RESISTOR ON 1/100 ATK 2 R. R. R. R. R. R. R.	R211 ERJ	J8GEYJ1R2	M. RESISTOR CH 1/8W 1.	2K	1	R361	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R219_1_14_		J3GEYJ102	M. RESISTOR CH 1/16W	1K	1	R362	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
Residency Resi			M, RESISTOR CH 1/16W 4	17K	2	R363	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
Residency Resi					1	R364		· · · · · · · · · · · · · · · · · · ·	1	
R215 RAJBERY-LIDE RESISTOR ON 1/169 1K RESISTOR ON 1/169 1K RAJBERY-LIDE RAJBERY-LIDE RAJBERY-LIDE RESISTOR ON 1/169 1K RAJBERY-LIDE							+		+	·
R219						ļ	·	 	 	
R219_20									!	
R221 VRECOGARS233 & RESISTOR CH 1/10W 32K 1 RACE PROPERTIES CH 1/10W 10K 1 RACE PROPERTIES CH						!			-	
R222 WECOGAE223 & RESISTOR ON 1/10W 22K 1 RA15 ENJOYEY-102 & RESISTOR ON 1/10W 10K 1 RA16 ENJOYEY-102 & RESISTOR ON 1/10W 10K 1 RA28 ENJOYEY-102 & RESISTOR ON 1/10W 10K 1 RA29 ENJOYEY-103 & RESISTO					·	-	+	f	! -	<u> </u>
R226 ENJOSEY-1072 N. RESISTOR CH 1/16W 4.7K 1						I			-	
R225 ERJORE/VIJO 8 RESISTOR CH 1/16W 47K 1					 		 	 	-	
R226 ERJBECTJIRO N. RESISTOR CH 1/6W 1 1 1 R416 ERJBECTJIRO N. RESISTOR CH 1/16W 10K 1 R227 ERJBECTJIRO N. RESISTOR CH 1/16W 10K 1 R417 ERJBECTJIRO N. RESISTOR CH 1/16W 10K 1 R418 ERJBECTJIRO N. RESISTOR CH 1/16W 10K 1 R422 ERJBECTJIRO N. RESISTOR CH 1/16W 10K 1 R422 ERJBECTJIRO N. RESISTOR CH 1/16W 10K 1 R423 ERJBECTJIRO N. RESISTOR CH 1/16W 10K 1 R426 ERJBECTJIRO N. RESISTOR CH 1/16W 10K 1 R427 ERJBECTJIRO N. RESISTOR CH 1/16W 10K 1 R428 ERJBECTJIRO N. RESISTOR CH 1/16W 10K 1 R428 ERJBECTJIRO N. RESISTOR CH 1/16W 10K 1 R429 ERJBECTJIRO N. RES					1		 	 	-	
R227 ENJ8GET/JIR2					'				-	
R226 ERJSGEY-J102 M. RESISTOR CH 1/16W 1K 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	R226 ERJ	RJ8GEYJ1RO	M. RESISTOR CH 1/8W		<u> </u>		-	·	1	
R229, 30	R227 ERJ	NJ8GEYJ1R2	M. RESISTOR CH 1/8W 1.		1	R417	ERJ3GEYJ184	M. RESISTOR CH 1/16W 180K	_1	
R231 ERJSGEYJ333 N. RESISTOR CH 1/16W 33K 1 R232 ERJSGEYJ223 N. RESISTOR CH 1/16W 22K 1 R237 ERJSGEYJ102 N. RESISTOR CH 1/16W 22K 1 R238 ERJSGEYJ102 N. RESISTOR CH 1/16W 1K 1 R238 ERJSGEYJ102 N. RESISTOR CH 1/16W 1K 1 R239 ERJSGEYJ102 N. RESISTOR CH 1/16W 1K 1 R239 ERJSGEYJ103 N. RESISTOR CH 1/16W 1K 1 R239 ERJSGEYJ103 N. RESISTOR CH 1/16W 1K 1 R230 ERJSGEYJ103 N. RESISTOR CH 1/16W 1K 1 R230 ERJSGEYJ103 N. RESISTOR CH 1/16W 1K 1 R230 ERJSGEYJ103 N. RESISTOR CH 1/16W 1K 1 R231 ERJSGEYJ103 N. RESISTOR CH 1/16W 1K 1 R232 ERJSGEYJ103 N. RESISTOR CH 1/16W 1K 1 R234 ERJSGEYJ103 N. RESISTOR CH 1/16W 1BOK 1 R235 ERJSGEYJ103 N. RESISTOR CH 1/16W 1BOK 1 R236 ERJSGEYJ103 N. RESISTOR CH 1/16W 1BOK 1 R237 ERJSGEYJ103 N. RESISTOR CH 1/16W 1BOK 1 R238 ERJSGEYJ103 N. RESISTOR CH 1/16W 1BOK 1 R239 ERJSGEYJ103 N. RESISTOR CH 1/16W 1BOK 1 R239 ERJSGEYJ103 N. RESISTOR CH 1/16W 1BOK 1 R240 ERJSGEYJ103 N. RESISTOR CH 1/16W 1BOK 1 R241 ERJSGEYJ103 N. RESISTOR CH 1/16W 1BOK 1 R242 ERJSGEYJ103 N. RESISTOR CH 1/16W 1BOK 1 R244 ERJSGEYJ103 N. RESISTOR CH 1/16W 1BOK 1 R245 ERJSGEYJ103 N. RESISTOR CH 1/16W 1BOK 1 R246 ERJSGEYJ103 N. RESISTOR CH 1/16W 1BOK 1 R247 ERJSGEYJ103 N. RESISTOR CH 1/16W 1BOK 1 R248 ERJSGEYJ103 N. RESISTOR CH 1/16W 1BOK 1 R249 ERJSGEYJ103 N. RESISTOR CH 1/16W 1BOK 1 R249 ERJSGEYJ103 N. RESISTOR CH 1/16W 1BOK 1	R228 ERJ	RJ3GEYJ102	M. RESISTOR CH 1/16W	1K		R418	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
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R248 ERJ3GEYJ102 N. RESISTOR CH 1/16W 1K 1 R249 ERJ3GEYJ184 M. RESISTOR CH 1/16W 180K 1 R250 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R251, 52 ERJ3GEYJ271 N. RESISTOR CH 1/16W 270 2 R253 ERJ3GEYJ371 N. RESISTOR CH 1/16W 470 1 R254 ERJ3GEYJ31 N. RESISTOR CH 1/16W 330 1 R256 ERJ3GEYJ31 N. RESISTOR CH 1/16W 470 1 R260, 61 ERJ3GEYJ471 N. RESISTOR CH 1/16W 470 1 R262 ERJ3GEYJ471 N. RESISTOR CH 1/16W 4. 7K 2 R263 ERJ3GEYJ471 N. RESISTOR CH 1/16W 4. 7K 2 R264 ERJ3GEYJ472 N. RESISTOR CH 1/16W 4. 7K 2 R265 ERJ3GEYJ473 N. RESISTOR CH 1/16W 4. 7K 2 R260 ERJ3GEYJ474 N. RESISTOR CH 1/16W 560K 1 R263 ERJ3GEYJ102 N. RESISTOR CH 1/16W 1K 1 R266 ERJ3GEYJ32 N. RESISTOR CH 1/16W 4. 7K 1 R267 ERJ3GEYJ33 N. RESISTOR CH 1/16W 4. 7K 1 R268 ERJ3GEYJ102 N. RESISTOR CH 1/16W 1K 1 R269 ERJ3GEYJ102 N. RESISTOR CH 1/16W 1K 1 R260 ERJ3GEYJ103 N. RESISTOR CH 1/16W 10K 4 R261 ERJ3GEYJ103 N. RESISTOR CH 1/16W 10K 4 R262 ERJ3GEYJ103 N. RESISTOR CH 1/16W 1K 1 R263 ERJ3GEYJ103 N. RESISTOR CH 1/16W 10K 1 R264 ERJ3GEYJ33 N. RESISTOR CH 1/16W 4. 7K 1 R265 ERJ3GEYJ103 N. RESISTOR CH 1/16W 10K 1 R266 ERJ3GEYJ103 N. RESISTOR CH 1/16W 15K 1 R267 ERJ3GEYJ563 N. RESISTOR CH 1/16W 15K 1 R267 ERJ3GEYJ563 N. RESISTOR CH 1/16W 56K 1 R267 ERJ3GEYJ103 N. RESISTOR CH 1/16W 10K 1 R267 ERJ3GEYJ563 N. RESISTOR CH 1/16W 56K 1 R267 ERJ3GEYJ563 N. RESISTOR CH 1/16W 56K 1					· · · · · · · · · · · · · · · · · · ·	!			H	
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R254 ERJ3GEYJ331 M. RESISTOR CH 1/16W 330 1 R256 ERJ3GEYJ471 M. RESISTOR CH 1/16W 470 1 R256 ERJ3GEYJ472 M. RESISTOR CH 1/16W 4.7K 2 R256 ERJ3GEYJ564 M. RESISTOR CH 1/16W 560K 1 R2563 ERJ3GEYJ102 M. RESISTOR CH 1/16W 1K 1 R2564 ERJ3GEYJ392 M. RESISTOR CH 1/16W 1K 1 R2565 ERJ3GEYJ392 M. RESISTOR CH 1/16W 1K 1 R2566 ERJ3GEYJ393 M. RESISTOR CH 1/16W 82K 1 R2567 ERJ3GEYJ153 M. RESISTOR CH 1/16W 4.7K 1 R2568 ERJ3GEYJ153 M. RESISTOR CH 1/16W 4.7K 1 R2568 ERJ3GEYJ153 M. RESISTOR CH 1/16W 4.7K 1 R2569 ERJ3GEYJ153 M. RESISTOR CH 1/16W 4.7K 1 R2560 ERJ3GEYJ153 M. RESISTOR CH 1/16W 56K 1 R2561 ERJ3GEYJ553 M. RESISTOR CH 1/16W 56K 1 R2562 ERJ3GEYJ553 M. RESISTOR CH 1/16W 56K 1 R2563 ERJ3GEYJ153 M. RESISTOR CH 1/16W 56K 1 R2564 ERJ3GEYJ553 M. RESISTOR CH 1/16W 56K 1 R2565 ERJ3GEYJ553 M. RESISTOR CH 1/16W 56K 1 R2566 ERJ3GEYJ153 M. RESISTOR CH 1/16W 56K 1	R251, 52 ERJ	RJ3GEYJ271 I	M. RESISTOR CH 1/16W 2	70 2		R461	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R256 ERJ3GEYJ471 M. RESISTOR CH 1/16W 470 1 R260, 61 ERJ3GEYJ564 M. RESISTOR CH 1/16W 4.7K 2 R262 ERJ3GEYJ564 M. RESISTOR CH 1/16W 560K 1 R263 ERJ3GEYJ102 M. RESISTOR CH 1/16W 1K 1 R264 ERJ3GEYJ823 M. RESISTOR CH 1/16W 82K 1 R265 ERJ3GEYJ823 M. RESISTOR CH 1/16W 4.7K 1 R266 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R266 ERJ3GEYJ103 M. RESISTOR CH 1/16W 1K 1 R267 ERJ3GEYJ103 M. RESISTOR CH 1/16W 1K 1 R268 ERJ3GEYJ104 M. RESISTOR CH 1/16W 10K 1 R269 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R260 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R260 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R261 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R262 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R263 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R264 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R265 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R266 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R267 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1	R253 ERJ	J3GEYJ471	M. RESISTOR CH 1/16W 4	70		R468, 69	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R256 ERJ3GEYJ471 M. RESISTOR CH 1/16W 470 1 1 R471 ERJ3GEYJ392 M. RESISTOR CH 1/16W 3. 9K 1 R260, 61 ERJ3GEYJ564 M. RESISTOR CH 1/16W 4.7K 2 R503-06 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 4 R503 ERJ3GEYJ102 M. RESISTOR CH 1/16W 1K 1 R508 ERJ3GEYJ104 M. RESISTOR CH 1/16W 10K 1 R509 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R510 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R510 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R510 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R512 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R513 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R513 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R513 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1	R254 ERJ	J3GEYJ331	M. RESISTOR CH 1/16W 3	30		R470	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R260, 61 ERJ3GEYJ472 M. RESISTOR CH 1/16W 4.7K 2 R262 ERJ3GEYJ564 M. RESISTOR CH 1/16W 560K 1 R263 ERJ3GEYJ102 M. RESISTOR CH 1/16W 1K 1 R264 ERJ3GEYJ823 M. RESISTOR CH 1/16W 82K 1 R265 ERJ3GEYJ823 M. RESISTOR CH 1/16W 4.7K 1 R266 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R267 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R268 ERJ3GEYJ104 M. RESISTOR CH 1/16W 10K 1 R269 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R260 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R261 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R262 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R263 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1				70 1		R471	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1	
R262 ERJ3GEYJ564 M. RESISTOR CH 1/16W 560K 1 R503-06 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 4 R263 ERJ3GEYJ102 M. RESISTOR CH 1/16W 1K 1 R508 ERJ3GEYJ104 M. RESISTOR CH 1/16W 10K 1 R264 ERJ3GEYJ323 M. RESISTOR CH 1/16W 82K 1 R509 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R265 ERJ3GEYG472 M. RESISTOR CH 1/16W 4.7K 1 R510 ERJ3GEYJ102 M. RESISTOR CH 1/16W 1K 1 R266 ERJ3GEYJ153 M. RESISTOR CH 1/16W 15K 1 R512 ERJ3GEYJ104 M. RESISTOR CH 1/16W 10K 1 R267 ERJ3GEYJ563 M. RESISTOR CH 1/16W 56K 1 R513 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1				7K 2		R472, 73	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R263 ERJ3GEYJ102 M. RESISTOR CH 1/16W 1K 1 R503 ERJ3GEYJ104 M. RESISTOR CH 1/16W 100K 1 R264 ERJ3GEYJ823 M. RESISTOR CH 1/16W 82K 1 R509 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R505 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R506 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R510 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R510 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R512 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R513 ERJ3GEYJ103 M. R513 E									4	
R264 ERJ3GEYJ823 M. RESISTOR CH 1/16W 82K 1 R509 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R565 ERJ3GEYJ153 M. RESISTOR CH 1/16W 15K 1 R566 ERJ3GEYJ153 M. RESISTOR CH 1/16W 15K 1 R512 ERJ3GEYJ104 M. RESISTOR CH 1/16W 10K 1 R513 ERJ3GEYJ103 M. R513 ERJ3GEYJ1									1	
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R266 ERJ3GEYJ153 M. RESISTOR CH 1/16W 15K 1 R512 ERJ3GEYJ104 M. RESISTOR CH 1/16W 100K 1 R267 ERJ3GEYJ563 M. RESISTOR CH 1/16W 56K 1 R513 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1										
R267 ERJ3GEYJ563 M. RESISTOR CH 1/16W 56K 1 R513 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1										
	KZ67 ERJ	U34E1J563	M. RESISTUR UH I/TON 5	UN 1		K010	LICUSUETU IUS	m. neososun on 1/10# 10#		
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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks	Ref. No.	Part No.	Part Name & Description)Pc	s Remarks
	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1		R849	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	7	
R517, 18	VRE0034E223	M. RESISTOR CH 1/10W 22K	2		R850	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	T	1
R519, 20	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2		R851, 52	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390		2
R524	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1		R853	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	T	1
R526	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1		R854, 55	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	T	2
R527	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1		R856	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K		1
R528	ERJ3GEYJ393	M. RESISTOR CH 1/16W 39K	1		R857	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	\perp	1
R533	ERJ3GEYJ393	M. RESISTOR CH 1/16W 39K	_1		R858	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	1
R534	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1		R859	ERJ3GEYG682	M. RESISTOR CH 1/16W 6. 8K	+-	1
R535	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1		R860, 61	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	+-	2
R536		M. RESISTOR CH 1/16W 22K	_1		R862	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	-	<u> </u>
		M. RESISTOR CH 1/16W 10K	4		R863, 64	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	+-	2
R541	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1		R865	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	+	1
R542	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	-1		R866	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	+-	
R543		M. RESISTOR CH 1/16W 1K	-1		R867, 68	ERJ3GEYG682	M. RESISTOR CH 1/16W 6. 8K	╀	2
R544	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	7		R869 R870	ERJ3GEYJ473 ERJ3GEYJ103	M. RESISTOR CH 1/16W 47K	-	
R545-51 R552	ERJ3GEYOROO ERJ3GEYJ221	M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 220	-/		R871, 72	ERJ8GEYJ391	M. RESISTOR CH 1/16W 10K	-	
R553	ERJ3GEYJ471	M. RESISTOR CH 1/16W 470	- 1		R873	ERJ3GEYJ103	M. RESISTOR CH 1/18W 10K	+	
	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2		R874, 75	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	+	2
R558	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1		R876	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	+-	1
R559	ERJ3GEYJ511	M. RESISTOR CH 1/16W 510	1		R877	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	1	1
	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	2		R878	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R600	ERJ12YOROO	M. RESISTOR CH 1/2W 0	1		R879	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	†	
R701, 02	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2		R880	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	1	1
R703	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1		R881	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R704	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1:		R882~84	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	1	3
R706	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1		R885	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K		
R707	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R886	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K		
R708	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	4	R887	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K		
R709	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R890~95	ERJ12YJ3R3	M. RESISTOR CH 1/2W 3, 3	L	3
R710	ERJ3GEYJ394	M. RESISTOR CH 1/16W 39OK	1	 	R897, 98	ERJ12YJ3R3	M. RESISTOR CH 1/2W 3.3	L	2
R711		M. RESISTOR CH 1/16W 47K	_1		R905	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	L	}
R712, 13		M. RESISTOR CH 1/16W 1K	2		R906	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	-	
R714	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	_1		R907	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R715	f	M. RESISTOR CH 1/16W 10K	-1		R908	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	+-	
R716, 17	ERJ8GEYJ101	M. RESISTOR CH 1/8W 100	2		R910	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R718	ERJ8GEYJ300	M. RESISTOR CH 1/8W 30 M. RESISTOR CH 1/10W 270	1		R913	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	-	
R721 R722	ERJ6GEYG271 ERJ3GEYJ103	M. RESISTOR CH 1/10W 270 M. RESISTOR CH 1/16W 10K	- '	· · · · · · · · · · · · · · · · · · ·	R914 R915	ERJ3GEYJ222 ERJ3GEYJ473	M. RESISTOR CH 1/16W 2.2K. M. RESISTOR CH 1/16W 47K	-	
R727-30	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	4		R917, 18	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R731-34	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	4		R921	ERJ3GEYJ103	M. RESISTOR CH 1/16W / 10K	+	<u> </u>
R735	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	1		R922	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	+	
R736		M. RESISTOR CH 1/16W 10K	1		R923	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R737, 38	ERJ8GEYJ102	M. RESISTOR CH 1/8W 1K	2		R924	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	<u> </u>
R747	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1		R925	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R748	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1		R926	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R749	ERJ8GEYOROO	M. RESISTOR CH 1/8W 0	1.		R927-30	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R801	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R932	ERJ3GEYOROO	M. RESISTOR CH 1/18W 0	1	
R803, 04	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2		R933, 34	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1 2	
R805		M. RESISTOR CH 1/16W 100	_1	·····	R936-38	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	13	
R806		M. RESISTOR CH 1/16W 47K	_1		R940	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R810, 11		M. RESISTOR CH 1/16W 47K	2		L			1	
R815-17		M. RESISTOR CH 1/16W 10K	3		TG114	EYF6CU	TEST POINT	1-1	
R819, 20		M. RESISTOR CH 1/16W 56K	2		TG300	EYF6CU	TEST POINT	┞╵	
R821		M. RESISTOR CH 1/16W 3.9K M. RESISTOR CH 1/16W 10K	-1		TP100-02	EYF6CU	TEST POINT	-	
R822 R823-25		M. RESISTOR CH 1/10W 680	3		TP107	EYF6CU	TEST POINT	1	
<u> </u>		M. RESISTOR CH 1/16W 390K	2		TP113	EYF6CU	TEST POINT		
R828		M. RESISTOR CH 1/16W 6.8K	1		TP115, 16		TEST POINT	2	
R829		M. RESISTOR CH 1/16W 47K	1			EYF6CU	TEST POINT	2	
R830		M. RESISTOR CH 1/16W 10K	1		TP402	EYF6CU	TEST POINT	1	h
		M. RESISTOR CH 1/8W 390	2		TP501-05		TEST POINT	5	
R833		M. RESISTOR CH 1/16W 10K	1		TP902	EYF6CU	TEST POINT	1	
		M. RESISTOR CH 1/8W 390	2					Γ	
R836		M. RESISTOR CH 1/16W 10K	_1		VR101	EVM7JGAQOB54	V. RESISTOR 50K	1	
R837	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	1		VR401	EVM7JGA00854	V. RESISTOR 50K	1	
R838	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1		VR402	EVM7JGAQOB24	V. RESISTOR 20K	1	
R839	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	1		VR501, 02	EVM7JGAO0824	V. RESISTOR 20K	2	
R840, 41	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	2		VR503	EVM7JGAQOB14		1	
R842	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		VR504	EVM7.JGAOOB53	V. RESISTOR 5K	1	
R843, 44	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	2					Ĺ	
R845		M. RESISTOR CH 1/16W 10K	1		X500	V\$X0791	CRYSTAL OSCILLATOR	_1	
R846		M. RESISTOR CH 1/16W 47K	-1		<u> </u>			<u> </u>	
R847, 48	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	2		 	·	MISCELLANEOUS	<u> </u>	
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Ref. No.	Part No.	Part Name & Description	rcs	Remarks	Ref. No.	Part No.	Part Name & Description		
					P1002	VJP2824B002	CONNECTOR (MALE)	1	
\	VSC4607	SHIELD CASE	1		P1003	VJP2824A003	CONNECTOR (MALE) 3P	1	
					P1004	VJP3518B008	CONNECTOR (MALE)	_ 1	
					P1005	VJP3125B009	CONNECTOR (MALE)	1	
■ E2	VEPOOWO8B	HEAD PHONE P. C. BOARD	1	(RTL)	P1006, 07	VJP3125B004	CONNECTOR (MALE)	2	2
					P1008, 09	VJS3551	CONNECTOR (FEMALE)	2	2
C9201, 02	ECKF1H102ZF	C. CAPACITOR 50V 1000P	2		Q1001	2SJ280S	TRANSISTOR	1	
30201, 52	2011 1111 222				Q1002	2SB779-Q	TRANSISTOR	1	
J9201	VJJ0522	JACK	1		Q1003	2SD1819A-R	TRANSISTOR	1	
39201	VJJUJ22	OAOR			Q1004	2SD874-R	TRANSISTOR	1	
14 10	n pol 17	0011	2		Q1005	2SD1979	TRANSISTOR	-	
L1, L2	VLP0147	COIL	. 2					1	
			<u> </u>		Q1006	2SB1220-R	TRANSISTOR	_	
P9201	VJP1608T	CONNECTOR (MALE)	_1		01007, 08	2SD1821-R	TRANSISTOR	2	
					01009, 10	2SD1979	TRANSISTOR	2	2
								<u> </u>	
■ E3	VEP80A44A	DC INPUT P. C. BOARD	1	(RTL)	QR1001-06	UN5113	TRANSISTOR-RESISTOR	-	
				-	İ			<u> </u>	
					R1001	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
D1	S3V40	DIODE	1		R1002	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
-	001-10		H		R1003	ERJ6GEYJ1RO	M. RESISTOR CH 1/10W 1	1	
		MI COELLANEOUS			R1004	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
		MISCELLANEOUS	 		<u> </u>				
	·				R1005	ERJ3GEYJ103		-	
	VJP2717	CONNECTOR	1		R1006	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	_1	<u> </u>
	VEE9423	EX DC CABLE UNIT	1		R1007	ERJ8GEYJ1RO	M. RESISTOR CH 1/8W 1	1	
					R1008	ERJ3GEYJ183	M. RESISTOR CH 1/16W 18K	_1	
					R1009	ERJ3GEYJ390	M. RESISTOR CH 1/16W 39	1	
■ E4	VEP84297B	REAR JACK P. C. BOARD	1	(RTL)	R1010	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
= 64	0-160 ID		H.		R1011	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
			\vdash				M. RESISTOR CH 1/16W 10K	-	
			_		R1012	ERJ3GEYJ103		 	<u> </u>
C1001-06	ECUX1H102JV	C. CAPACITOR CH 50V 1000P	6		R1014	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K		ļ <u>.</u>
01007	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1		R1015	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
C1008	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1		R1016	ERJ3GEYG822	M. RESISTOR CH 1/16W 8.2K] 1	·
	ECUM1H223KBN	C. CAPACITOR CH 50V 0. 022U	1		R1017	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	1	
	ECUX1H102JV	C. CAPACITOR CH 50V 1000P	1		R1018	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
							M. RESISTOR CH 1/16W 220	1	
C1011	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1		R1019	ERJ3GEYJ221			
C1012	ECQB2332JF	P. CAPACITOR	1		R1020	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
C1014	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1		R1021	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
C1015	ECEVOJN1000	E. CAPACITOR CH6. 3V 10U	1		R1022, 23	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	2	2
C1016	ECUX1H222KBV	C. CAPACITOR CH 50V 2200P	1		R1024	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
01017	VCC0030	C. CAPACITOR	1		R1025, 26	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	2	2
C1018	ECUM1H273KBN	C. CAPACITOR CH 50V 0. 027U	1		R1027	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
		C. CAPACITOR CH 50V 8200P	1		R1028	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	T	
C1019	ECUX 1H822KBV		<u> </u>			ERJ3GEYOROO		1	
C1020		C. CAPACITOR CH 25V 0.1U			R1029			1	
C1021	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1		R1030	ERJ3GEYJ124	M. RESISTOR CH 1/16W 120K	1	
C1022	ECEVOJN1000	E. CAPACITOR CH6. 3V 10U	1		R1031	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	_1	
C1023	ECUX1H390JCV	C. CAPACITOR CH 50V 39P	1		R1034	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
C1024	ECUM1E473KBN	C. CAPACITOR CH 25V O. 047U	1		R1035	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
C1025		C. CAPACITOR CH 25V 0.1U	1		R1036	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
C1026	VCEO180	CAPACITOR	1		R1037	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	
		C. CAPACITOR CH 50V 2200P	,		R1038	ERJ8GEYJ101	M. RESISTOR CH 1/8W 100	1	
C1027			+;	·	1			t i	
		C. CAPACITOR CH 25V 0. 1U	2		004.024	V000040	CWITCH	\vdash	
C1030, 31		C. CAPACITOR CH 50V O. 01U	2		SW1001	VSS0342	SWITCH	1	
C1032	ECEVOGV221Q	E. CAPACITOR CH 4V 220U	1		<u></u>	<u> </u>		\vdash	
			L		T1001	VLT0729	TRANSFORMER	1	
∆ CB1001	VSQ0834	CIRCUIT PROTECTOR	1		L	L		L	
	l	İ	Γ					1	
D1001	S3V60	DIODE	1		TG1001, 02	EYF6CU	TEST POINT	2	
	MA142K	DIODE	1		T	l		1	
D1002	m/\ 1 °C\	D 150L	⊢'		VR1001	VRV0161B503	V. RESISTOR 50K	1	
			\vdash						
FL1001	EIR7QF012B	TRANSFORMER	1		VR1002	VRV0161B103	V. RESISTOR 10K	1	
			<u>_</u>			ļ			
101001, 02	NJM4558M-D	10	2				MISCELLANEOUS	L	
	1		Γ					L	
11002 02	VLF1315A102	FILTER	2		[VMP4846	JACK ANGLE	1	
		FILTER	1		t	XYN3+K6	SCREW	1	
	VLF1315A102		<u> </u>	 				⊢'	
	VLF1315A102	FILTER	2			 		\vdash	ļ ————————————————————————————————————
L1010	VLF1315A102	FILTER	<u>_1</u>					<u> </u>	1
L1011, 12	VLF1151A132	COIL	2		■ E5	VEP80A43A	AV OUT P. C. BOARD	1	(RTL)
L1013	VLP0320	COIL	1					L	
L1014	VLQ0423J472	COIL 4700UH	1						
			8		J3	VJS3154	CONNECTOR (FEMALE)	1	
	VLF1315A102	FILTER			1				
	ELELN560KA	COIL	1		J4	VJS3155	CONNECTOR (FEMALE)	 	
L1023		i		1	J5	VJJ0323	RCA PIN JACK	į 1	1
L1023					J			$\overline{}$	
L1023	VJS2907D025	CONNECTOR (FEMALE)	1						

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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks	Ref. No.	Part No.	Part Name & Description	Pe	Remarks
		CABLE	3		C1078, 79	ECUM1E105ZFM	C. CAPACITOR CH 25V 1U	2	
					C1080	ECEV1HNR47Q	E. CAPACITOR CH 50V 0. 47U	1	
P9700	VJP1610T	CONNECTOR (MALE)	1		C1101	VCK0284	C. CAPACITOR	1	
P9701	VJP1607T	CONNECTOR (MALE)	1		C1102	ECGC188150	C. CAPACITOR 12V 15P	1	
P9701	V0F100/1	CONTRACTOR (MALL)	<u>.</u>		C1103	VCK0284	C. CAPACITOR		
					01104	ECUX1H331JCV	C. CAPACITOR CH 50V 330P	1	
						ļ	CAPACITOR CH SOV SSOF	H	
■ E6	VEPQOY56A	SERVO FLEXIBLE P. C. BOARD		(RTL)	C1105	VCEO180		 -	
		<u> </u>			C1106	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	L	
					C1107		C. CAPACITOR CH 16V 0. 047U		
P1, P2	VJS3806E060	CONNECTOR (FEMALE)	2		C1108	ECUX1E104KBN	C. CAPACITOR CH 25V 0. 1U	1	<u> </u>
					C1109	ECUX10333KBV	C. CAPACITOR CH 16V 0.033U	1	
					C1110	ECUX1H472KBV	C. CAPACITOR CH 50V 4700P] 1	1
≡ E7	VEP81179A	POWER P. C. BOARD	1	(RTL)	C1111	ECUX1C273KBV	C. CAPACITOR CH 16V 0.027U	1	
					C1112	ECUX1H472KBV	C. CAPACITOR CH 50V 4700P	1	
					01113	ECUX1H821JCV	C. CAPACITOR CH 50V 820P	1	
01001	VCE0180	CAPACITOR	1		C1114	EGST1AY225Z	T. CAPACITOR CH 10V 2. 2U	1	
		E. CAPACITOR CH 25V 4.7U	1		01115	ECST1CY105Z	T. CAPACITOR CH 16V 1U		
C1002		(-		C1116	ECST1VY474Z	T. CAPACITOR CH 35V 0. 47U		
C1003		C. CAPACITOR CH 25V O. 1U						1	
C1004	ECEV1HV0100	E. CAPACITOR CH 50V 1U	1		01117			1	
C1005		C. CAPACITOR CH 50V 120P	_1	L	C1118		C. CAPACITOR CH 50V 180P		
C1006	ECUM1C474KBM	G. CAPACITOR CH 16V 0, 47U	_1	<u></u>	01119	 	C. CAPACITOR CH 16V 0. 047U	1	
G1007		C. CAPACITOR CH 50V 470P	1		C1120		C. CAPACITOR CH 50V 8200P	1	
C1008		C. CAPACITOR CH 50V O. 01U	1		C1121		C. CAPACITOR CH 50V 470P	L	
C1009	ECUX1H471JCV	C. CAPACITOR CH 50V 470P	1		C1122	ECUX1E104KBN	C. CAPACITOR CH 25V O. 1U	L	
C1010	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1		01123	ECUX1H821JCV	C. CAPACITOR CH 50V 820P		
C1011-13		C. CAPACITOR CH 50V 1000P	3		01124	ECUX1H22OJCV	C. CAPACITOR CH 50V 22P	1	
C1014		C. CAPACITOR CH 25V 0.1U	1		01125, 26	ECUX1H821JCV	C. CAPACITOR CH 50V 820P	2	:
C1015		C. CAPACITOR CH 50V 470P	1		C1127, 28		C. CAPACITOR CH 50V 22P	2	
C1015		C. CAPACITOR CH 25V 0.1U	1		C1129	 	C. CAPACITOR CH 16V 1U	1	
	VCEA1DAP101	E. CAPACITOR 20V 100U	,		01130	VCK0284	C. CAPACITOR	1	
C1017, 18		C. CAPACITOR CH 25V O. 1U	1		01131	+	C. CAPACITOR CH 50V 330P	1	
C1021	ECUX1E104KBN				G1132		C. CAPACITOR CH 16V C. 027U	+	
C1022	VCE0180	CAPACITOR	-			V0E0180	CAPACITOR OF 10V 0.0270	\vdash	
C1023	ECUX1H681JV	C. CAPACITOR CH 50V 680P			C1133			-	}
C1024	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U			01134, 35		C. CAPACITOR CH 16V 1U	1	
G1025	VCE0180	CAPACITOR	_1		C1136	VCK0284	C. CAPACITOR	-	
C1026	ECUX1H681JV	C. CAPACITOR CH 50V 680P	1		C1137		C. CAPACITOR CH 50V 330P	1	
C1027	VGE0180	CAPACITOR	1		C1138		C. CAPACITOR CH 16V 0. 027U	\perp 1	<u> </u>
C1028	ECUX1E104ZFV	C. CAPACITOR CH 25V 0. 1U	1		C1139	ECUM1C105ZFN	C. CAPACITOR CH 16V 10	1	<u> </u>
C1029	VCE0180	CAPACITOR	1		C1140	ECUX1H122KBV	G. GAPAGITOR CH 50V 1200P	\perp_1	
C1030	ECUX1E104ZFV	C. CAPACITOR CH 25V O. 1U	1		C1141	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	\perp_1	·
C1031	ECUX1E104KBN	C. CAPACITOR CH 25V C. 1U	1		C1142, 43	ECA1EFQ221	E. CAPACITOR 25V 220U	2	:
C1033	VCE0180	CAPACITOR	1		C1144-47	VCK0284	G. CAPACITOR	7	4
C1034	ECUX1H471JCV	C. CAPACITOR CH 50V 470P	1		C1148	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C1035	VCE0180	CAPACITOR	1		C1149	ECUX1H22OJCV	C. CAPACITOR CH 50V 22P	1	
C1036, 37		C. CAPACITOR CH 25V 0. 1U	,		C1150	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C1038	ECEV1EV4R7Q	E. CAPACITOR CH 25V 4.7U	1		C1151		C. CAPACITOR CH 25V O. 1U	1	
		E. CAPACITOR CH 50V 1U	 		01152	ECEVOJV330Q	E. CAPACITOR CH6, 3V 33U	1	
C1039		 	-			 	C. CAPACITOR CH 25V O. 1U	1	
01042		C. CAPACITOR CH 50V 470P	-!		01153				
C1043		C. CAPACITOR CH 25V O. 1U	1		C1206	VCK0284	C. CAPACITOR	-	
C1044	<u> </u>	C. CAPACITOR CH 50V 470P	_1		C1207	ECA1EFQ221	E. CAPACITOR 25V 220U	1	
C1045		C. CAPACITOR CH 16V O. 027U	1	L	G1208	VCK0284	C. CAPACITOR	1	
C1046-48		C. CAPACITOR CH 50V 1000P	3	<u> </u>	C1209	ECA1EFQ221	E. CAPACITOR 25V 22OU	1	
C1049	ECUM1E473KBN	C. CAPACITOR CH 25V O. 047U	_1			<u> </u>	<u> </u>	<u> </u>	<u> </u>
C1050	ECUX1H471JCV	C. CAPACITOR CH 50V 470P	_1		D1001	MA143	DIODE	L	
C1051	ECUX1E104KBN	C. CAPACITOR CH 25V O. 1U	_1		D1004-06	MA736	DIODE	3	<u> </u>
C1053	VCE0180	CAPACITOR	1		D1007	MA143	DIODE	1	L
C1054	ECUX1H681JV	C. CAPACITOR CH 50V 680P	1		D1008	MA736	DIODE	1	
C1055	VCE0180	CAPACITOR	1		D1009	MA738	DIODE	1	
C1056	 	C. CAPACITOR CH 25V O. 1U	1		D1010	NSQ03A04	DIODE	1	
C1057		C. CAPACITOR CH 25V 0.1U	H		D1011	E0100S1012	DIODE	1	
	VCEO180	CAPACITOR	H		D1014	MA736	DIODE	H	
G1059		C. CAPACITOR CH 50V 680P	├-;	<u> </u>	D1015	MA738	DIODE	+	
C1060	ECUX1H681JV	 	⊢;	 		MA142WK	DIODE	2	
C1061	VCEO180	CAPACITOR	屵					1	
C1062	 	C. CAPACITOR CH 25V 0. 1U	닏		D1101	MA142K	DIODE	-	
C1063	VCEA1DAP680	E. CAPACITOR 20V 68U	1		D1102	S805-050P	DIODE	1	
C1066	VCEA1AAP221	E. CAPACITOR 10V 220U	_1		D1103	MA142K	DIODE	1	
C1067		C. CAPACITOR CH 25V 0. 1U	1		D1106-12	MA8068-H	DIODE	7	
C1068	ECUM1H123KBV	C. CAPACITOR CH 50V O. 012U						_	
C1069	VCEA1CAP101	E. CAPACITOR 16V 100U	1		101001, 02	BA9706K	1C	2	
C1070		E. CAPACITOR CH 50V 3.3U	1		101003	LM2577MX-ADJ	IC	1	
C1071	ECA1EFQ820	E. CAPACITOR 25V 82U	1		101004	BA9707KV	10	1	
01072	ECA1JFG560	E. GAPACITOR 63V 56U	1		T			_	
01072		C. CAPACITOR CH 50V 0. 1U	-		L1001	VLQ0407120M	COIL 12UH	1	
	ECA1JFQ560	E. CAPACITOR 63V 58U	1		L1002, 03	VLQ0622	COIL	2	
01074		 	-		L1004	VLQ0022 VLQ0297	COIL	1	
C1077	ECEV1HV3R3Q	E. CAPACITOR CH 50V 3.3U	 '	 	11004	. 240201		├	
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L	<u></u>	<u></u>			<u> </u>	L	<u> </u>	<u> </u>	L
				nnm 4					

L1007 L1009 L1010	Part No. VLQ0407680K VLQ0621	Part Name & Description COIL 68UH COIL	Pcs 1	Remarks	Ref. No. R1033	Part No. VRE0034E393	Part Name & Description Pcs	Remarks
L1005 L1007 L1009 L1010	VLQ0407680K VLQ0621	COIL 68UH	1	New AX I SWITCH				Remarks
L1007 L1009 L1010	VLQ0621				K1033	[VKEUU34E393	וון אשב וויסולו או או או הוויסולו באוויים	
L1009 L1010			1 .1	11	04004	ED 100511 1400	W DECLOTOR OU 1 /10W 1W 1	
L1010			- 1	__	R1034	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K 1	
	VLQ0621	COIL	1			VRE0034E182	M. RESISTOR CH 1/10W 1.8K 2	
	VLQ0407680K	COIL 68UH	1		R1038	ERJ3GEYOROO_	M. RESISTOR CH 1/16W 0 1	
L1012	VLQ0621	COIL	1		R1039	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K 1	
L1013	VLQ0407680K	COIL 68UH	1		R1040	ERJ3GEYJ151	M. RESISTOR CH 1/16W 150 1	
L1014	VLQ0642	COIL	1		R1041	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K 1	
L1015	VLQ0417	COIL 10UH	1		R1042	ERJ3GEYJ151	M. RESISTOR CH 1/16W 150 1	
	VLQ0319K680	COIL	1		R1043, 44	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33 2	
			-					
	VLQ0621	COIL	-		R1045, 46	ERJ3GEYJ222		
L1018	VLQ0407680K	COIL 68UH	1		R1047	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K 1	
L1101	ELC5SB3R9M	COIL 3. 9UH	1		R1048	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K 1	
L1102	ELL7SR330M	COIL	1	11	R1049, 50	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100 2	
L1103	ELC5SB4R7M	COIL 4. 7UH	1		R1051	ERJ3GEYJ154	M. RESISTOR CH 1/16W 150K 1	· <u></u>
L1104	ELL7SR470M	COIL	1		R1054	VRE0034E563	M. RESISTOR CH 1/10W 56K 1	
L1105	ELC5SB4R7M	COIL 4. 7UH	1	***************************************	R1055	VRE0034E822	M. RESISTOR CH 1/10W 8.2K 1	
		COIL	+		R1056	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K 1	
L1106	ELL7SR220M		1				-	
L1107	VLQ0319K100	COIL 10UH	1		R1057	ERJ3GEYJ101		
L1108	VLQ0319K220	COIL 22UH	<u> </u>		R1058	ERJ3GEYJ154	M. RESISTOR CH 1/16W 150K 1	
L1109	VL00319K100	COIL 10UH	_1		R1060	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100 1	
L1110	VLQ0319K220	COIL 22UH	1		R1062	VRE0034E163	M. RESISTOR CH 1/10W 16K 1	
					R1063	VRE0034E822	M. RESISTOR CH 1/10W 8.2K 1	
P1001	VJS2889A025	CONNECTOR (FEMALE)	1		R1064	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K 1	
		CONNECTOR (FEMALE)	- <u>†</u>	 	R1065	ERJ3GEYJ560	M. RESISTOR CH 1/16W 56 1	
P1002	VJS2698A026		 			 		
P1003	VJP1231T	CONNECTOR (MALE) 4P	1	ļ [R1066	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K 1	
<u></u>			_		R1069	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2. 2K 1	
Q1001, 02	2SJ245S	TRANSISTOR	2		R1070	VRE0071E103	M. RESISTOR CH 1/16W 10K 1	
	2SD1820A-R	TRANSISTOR	2		R1071	VRE0071E152	M. RESISTOR CH 1/16W 1.5K 1	
Q1005	2SB1219A	TRANSISTOR	1		R1072	ERJ14YJ1R0	M. RESISTOR CH 1/4W 1.0 1	
01006	2SJ245S	TRANSISTOR	1		R1073	ERJ6GEYG681	M. RESISTOR CH 1/10W 680 1	
	<u> </u>		1		R1074	VRE0034E683	M. RESISTOR CH 1/10W 68K 1	
Q1007	2SD1820A-R	TRANSISTOR	1					
01008	2SB1219A	TRANSISTOR	1		R1075	VRE0034E182		•
Q1009	2SJ245S	TRANSISTOR	1		R1076	VRE0034E101	M. RESISTOR CH 1/10W 100 1	
Q1010	2SD1820A-R	TRANSISTOR	1		R1077	ERJ8GEYJ101	M. RESISTOR CH 1/8W 100 1	
Q1011	2SB1219A	TRANSISTOR	1	11	R1078	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100 1	
Q1012	2SJ245S	TRANSISTOR	1		R1080	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K 1	
01013	2SD1820A-R	TRANSISTOR	1		R1081	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68 1	
		TRANSISTOR	1		R1082	ERJ3GEYJ154	M. RESISTOR CH 1/16W 150K 1	
01014	2SB1219A	TRANSTOTOR	1					
01015	2SJ279S	TRANSISTOR	1		R1083	ERJ3GEYJ101		
Q1016	2SB1219A	TRANS1STOR .	1		R1085	ERJ3GEYG332	M. RESISTOR CH 1/16W 3. 3K 1	
Q1017	2SD1820A-R	TRANSISTOR	1		R1086	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68 1	
Q1019	2SD1820A-R	TRANSISTOR	1		R1087	ERJ3GEYJ154	M. RESISTOR CH 1/16W 15OK 1	
Q1020	2SB1219A	TRANSISTOR	1		R1088	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K 1	
Q1022	2SD1820A-R	TRANSISTOR	t	[[R1089	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K 1	
	FP102	TRANSISTOR	3		R1092	VRE0034E153	M. RESISTOR CH 1/10W 15K 1	
 			1		R1093	VRE0034E393	M. RESISTOR CH 1/10W 39K 1	
01104	2SB798	TRANSISTOR	1 2				M. RESISTOR CH 1/16W 150K 2	****
01105,06	2SJ245S	TRANSISTOR	2			ERJ3GEYJ154		
					R1101	VRE0071E822	M. RESISTOR CH 1/16W 8. 2K 1	
R1001	VRE0034E183	M. RESISTOR CH 1/10W 18K	1]	R1102	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K 1	
R1002	VRE0034E393	M. RESISTOR CH 1/10W 39K	1		R1103	VRE0071E151	N. RESISTOR CH 1/16W 150 1	
R1003	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1		R1104	VRE0071E242	N. RESISTOR CH 1/16W 2.4K 1	
R1004	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	1		R1105	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100 1	
	VRE0034E182	M. RESISTOR CH 1/10W 1.8K	2		R1106	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220 1	
R1005, 06			1		R1107, 08	ERJ3GEYJ151	M. RESISTOR CH 1/16W 150 2	
R1007	VRE0034E473	M. RESISTOR CH 1/10W 47K	1			ERJ3GEYJ470	M. RESISTOR CH 1/16W 47 1	
R1008	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1		R1109	_		
R1009	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1		R1110	VRE0034E513	M. RESISTOR CH 1/10W 51K 1	
R1010	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1		R1111	VRE0034E273	M. RESISTOR CH 1/10W 27K 1	
R1011	ERJ3GEYJ151	M. RESISTOR CH 1/16W 150	1	11	R1112, 13	VRE0034E182	M. RESISTOR CH 1/10W 1.8K 2	
R1012	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R1114	VRE0034E392	M. RESISTOR CH 1/10W 3.9K 1	
R1013	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1		R1115	ERJ3GEYJ103	M. RESISTOR CH 1/16W 1CK 1	
	 	M. RESISTOR CH 1/16W 12K	i			ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K 2	
R1014	ERJ3GEYJ123		1			ERJ3GEYJ151	M. RESISTOR CH 1/16W 150 2	
R1015	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	-			 		
R1016	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R1120	ERJ3GEYJ330		
R1018	VRE0034E153	M. RESISTOR CH 1/10W 15K	1		R1121		M. RESISTOR CH 1/16W 100 1	<u> </u>
R1019	VRE0034E332	M. RESISTOR CH 1/10W 3.3K		11	R1122	ERJ3GEYJ121	M. RESISTOR CH 1/16W 120 1	
R1021	VRE0034E432	M. RESISTOR CH 1/10W 4.3K	1		R1123	ERJ3GEYJ681	M RESISTOR CH 1/16W 680 1	
R1022	VRE0034E182	M. RESISTOR CH 1/10W 1.8K	1		R1124	VRE0034E472	M. RESISTOR CH 1/10W 4.7K 1	
		M. RESISTOR CH 1/16W 10K	1		R1125	VRE0034E361	M. RESISTOR CH 1/10W 360 1	
R1023	 				R1126	VRE0034E272	M. RESISTOR CH 1/10W 2.7K 1	
R1024		M. RESISTOR CH 1/16W 1K	1					
R1025		M. RESISTOR CH 1/16W 4.7K	_1		R1127	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100 1	
R1026	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68	1	11	R1128		M. RESISTOR CH 1/10W 4.7K 1	
R1027	ERJ3GEYJ154	M. RESISTOR CH 1/16W 150K	1		R1129	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0 1	
R1030		M. RESISTOR CH 1/10W 3.3K	1		R1130	VRE0034E242	M. RESISTOR CH 1/10W 2.4K 1	
	VRE0034E133	M. RESISTOR CH 1/10W 13K	1	<u> </u>	R1131	VRE0034E152	M. RESISTOR CH 1/10W 1.5K 1	
				11		<u> </u>		
R1031			-		R1132	VRE0071E301	M. RESISTOR CH 1/16W 300 1	
	VRE0034E183	M. RESISTOR CH 1/10W 18K	1		R1132	VRE0071E301	M. RESISTOR CH 1/16W 300 1	
R1031			1		R1132	VRE0071E301	M. RESISTOR CH 1/16W 300 1	

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Ref. No.	Part No.	Part Name & Description	Pcs Remarks	Ref. No.	Part No. Part Name & Description Pcs Remarks
		M. RESISTOR CH 1/10W 10K	1	C147	EGUX1E104ZFV G. CAPACITOR CH 25V 0. 1U 1
		M. RESISTOR CH 1/8W 100		C148	ECEVOGV470Q E. CAPACITOR CH 4V 47U 1
	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	C160	ECUXIHISOJOV C. CAPACITOR CH SOV 15P 1
	VRE0034E433	M. RESISTOR CH 1/10W 43K		C161	ECUX1H181JCV C. CAPACITOR CH 50V 180P 1 ECUX1E104ZFV C. CAPACITOR CH 25V 0. 1U 2
	VRE0034E753	M. RESISTOR CH 1/10W 75K		0162, 63	<u></u>
	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	1	C164	ECEVOJV3300 E. CAPACITOR CH6.3V 33U 1 ECUXIHIOODCV C. CAPACITOR CH 50V 10P 1
	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68	3	C165	
	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	1	C166	
	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K		C168-70	ECUX1E104ZFV C. CAPACITOR CH 25V 0. 1U 3 ECUX1H050CCV C. CAPACITOR CH 50V 5P 1
	ERJ3GEYJ101	M. RESISTOR CH 1/18W 100	1	C171	
	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	C172	ECUXH10224KBN C. CAPACITOR CH 16V 0.22U 1 ECUXH150JCV C. CAPACITOR CH 50V 15P 1
	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	_!	C173	ECUXIHISOSOV IC. CAPACITOR CH SOV 13P 1
	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2. 2K	1	C174 C175	EGUXIE104ZFV C. CAPACITOR CH 25V 0. IU 1
	ERJ3GEYJ104	M. RESISTOR CH 1/16# 100K		C191	ECUXIE104ZFV C. CAPACITOR CH 25V 0. 1U 1
	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	C192	ECEVIENSR3Q E. CAPACITOR CH 25V 3.3U 1
	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	2	C193-95	ECUXIE104ZFV C. CAPACITOR CH 25V 0: 1U 3
	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	z	C501	EGUXTETO4ZFV C. CAPACITOR CH 25V 0. 1U 1
R1213	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0		C504	ECUXHITOUCV C. CAPACITOR ON 50V 15P 1
		0011	1	C505	EGUXHI180JCV C. CAPACITOR CH 50V 18P 1
T1001	ELL7SRD006	COIL		C506	ECUXIE104ZFV C. CAPACITOR CH 25V 0. 1U 1
		TEAT AGINT		l	<u> </u>
TP1001-09		TEST POINT	9 8	G1001 G3001, G2	ECEA1HU22O E. CAPACITOR 50V 22U 1 ECUX1E104ZFV C. CAPACITOR CH 25V 0. 1U 2
TP1101-08	ET-600	TEST POINT	–	03001, 02	ECEVOJV330Q E. CAPACITOR CH6.3V 33U 1
	F1997 1010-005	V DECLETOD 5"		G3004, 05	ECUXIE104ZFV C. CAPACITOR CH 25V 0. 1U 2
	EVM7JGA00823	V. RESISTOR 2K	5	C3004, 05	ECEVICV470Q E. CAPACITOR CH 25V U. 10 2
VR1006	EVM7JGA00B52	V. RESISTOR 500	1	l }	ECUX1E104ZFV C. CAPACITOR CH 25V 0. 1U 1
	ED 1007112-07	H DECLETOR OF 4 /4 CM		C3007 C3008	ECEVOJV1010 E. CAPACITOR CH6.3V 100U 1
W1-W4	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0		l	ECUXIE104ZFV C. CAPACITOR CH 25V 0. 1U 2
	ļ	ļ		C3009, 10 C3011	ECEVOJV330Q E. CAPACITOR CH6.3V 33U 1
	 	OTO MALAY D. O. DOLDD	1 (DTI) INICI IDING EQ	03012	ECUXTE104ZFV C. CAPACITOR CH 25V 0.1U 1
■ E8	VEP83356B	VTR MAIN P. C. BOARD	1 (RTL) INCLUDING E9	03013	ECEVOJV330Q E. GAPACITOR CH6.3V 33U 1
■ E9	VEP84307A	AGC SUB P. C. BOARD	1 (RTL) INCLUDED E8	C3014	ECUXIE104ZFV C. CAPACITOR CH 25V 0. 1U 1
	ļ			C3014 C3018	EGUX1E1042FV C. CAPACITOR CH 25V 0. 1U 1
		0 04D404T0D 044 0514 0744		G3019	ECEVOGV470Q E. CAPACITOR CH 4V 47U 1
<u>C1</u>		C. CAPACITOR CH 25V 0.1U		G3020, 21	ECUXIE104ZFV C. CAPACITOR CH 25V 0.1U 2
G2	VCK0151	C. CAPACITOR		G3020, 21	ECEVOJV330Q E. CAPACITOR CH6.3V 33U 1
C3, C4		C. CAPACITOR CH 25V 0. 1U	2	C3023, 24	ECUXIE104ZFV C. CAPACITOR CH 25V 0.1U 2
C5	ECEVOGV470Q	E. CAPACITOR CH 4V 47U		G3025	ECEVOJV330Q E. CAPACITOR CH6. 3V 33U 1
C8	ECUX1E104ZFV	C. CAPACITOR CH 25V O. 1U	1	G3026-30	ECUXIE104ZFV C. CAPACITOR CH 25V 0.1U 5
C9	VCK0152	C. CAPACITOR	1	G3100	ECUXIE104ZFV C. CAPACITOR CH 25V 0.1U 1
C11	VCK0152	C. CAPACITOR	1	G3102	ECUXIH471JCV C. CAPACITOR CH 50V 470P 1
C13	VCK0152	C. CAPACITOR	2	G3104	ECUXTH330JCV C. CAPACITOR CH 50V 33P 1
C16, 17	VCK0152	C. CAPACITOR	1	C3105, 06	EGUXTHO40CCV C. CAPACITOR CH 50V 4P 2
C19	VCK0152	C. CAPACITOR		C3107	ECUXIE104ZFV C. CAPACITOR CH 25V O. IU 1
C21	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	2	G3109	ECUXIHA71JCV C. CAPACITOR CH 50V 470P 1
C22, 23	VCK0152	C. CAPACITOR OF SOV SP	1	G3111	ECUXIH330JCV C. CAPACITOR CH 50V 33P 1
C24		C. CAPACITOR CH 50V 0. 01U	1	l	ECUXIHO40CCV C. CAPACITOR CH 50V 4P 2
C25			1	·	ECUXIE104ZFV C. CAPACITOR CH 25V 0.1U 2
C28		C. CAPACITOR CH 25V 0. 1U	2	63200	ECUXIH121JCV C. CAPACITOR OH 50V 120P 1
C32, 33	VCK0151	C. CAPACITOR	1	G3208	ECUXIE104ZFV C. CAPACITOR CH 25V 0.1U 1
C34		C. CAPACITOR CH 25V 0. 1U	1	G3210	ECUMICIOSKBM C. CAPACITOR CH 18V 1U 1
C35	VCK0151	C. CAPACITOR		03211	ECUXIE104ZFV C. CAPACITOR CH 25V 0.1U 1
G38		C. CAPACITOR CH 50V 1000P	2	G3212	ECUXIHI5OJOV G. CAPACITOR CH 50V 15P 1
C39, 40		C. CAPACITOR CH 25V 0. 1U T. CAPACITOR CH 10V 10U	-	C3213	ECUMICIOSKBM G. GAPACITOR CH 16V 1U 1
G41	EOST1AX106Z		9	G3214, 15	ECUXIE104ZFV C. CAPACITOR OH 25V 0. 1U 2
C42, 43		C. CAPACITOR CH 25V 0. 1U C. CAPACITOR		G3217, 18	ECUXIE104ZFV C. CAPACITOR OH 25V 0. 1U 2
G44	VCK0151	C. CAPACITOR CH 25V 0. 1U		G3219	ECEVOJV330Q E. CAPACITOR CHB. 3V 33U 1
C45, 46		T. CAPACITOR CH 10V 10U	1	G3220, 21	ECUXIE104ZFV C. CAPACITOR CH 25V 0.1U 2
C47	ECST1AX108Z	 	1		ECUXIE104ZFV C. CAPACITOR CH 25V 0. 10 2
C48		C. CAPACITOR CH 25V 0. 1U	1	G3225, 24 G3225	ECUXIH121JCV C. CAPACITOR CH 50V 120P 1
C49		C. CAPACITOR CH 50V 18P		G3225 G3231	ECUMICIOSKBM G. CAPACITOR CH 16V 1U 1
C50		C. CAPACITOR CH 50V 6800P	9	G3232	ECUXIE104ZFV C. CAPACITOR CH 25V 0. 1U 1
C51-53		C. CAPACITOR CH 25V 0. 1U	3	03233	ECUXIHISOJOV C. CAPACITOR CH SOV 15P 1
C54	ECEVOGV4700	E. CAPACITOR CH 4V 47U	1	03233	ECUMICTOSKBM C. CAPACITOR CH 18V 1U 1
C62	VCK0151	C. CAPACITOR	1	ļ 	
C86	VCK0151	C. CAPACITOR	1	C3235, 36	
C86		C. CAPACITOR CH 25V Q. 1U	1	C3238	ECUX1E104ZFV C. CAPACITOR CH 25V 0. 1U 1
C87	ECEVOGV470Q	E. CAPACITOR CH 4V 47U		C3240, 41	
C90, 91		C. CAPACITOR CH 25V O. 1U	2	C3243-48	ECUXIE104ZFV C. CAPACITOR CH 25V 0. 1U 4
C92	ECEVOJV470Q	E. CAPACITOR CH6. 3V 47U	1	C3257-60	ECUXIE104ZFV C. CAPACITOR CH 25V 0.1U 4
C93~95		C. CAPACITOR CH 25V 0.1U	3		ECEVIEVAR70 E. CAPACITOR CH 25V 4.7U 2
	ECEVOGV470Q	E. CAPACITOR CH 4V 47U		G3283	ECUXIE104ZFV C. CAPACITOR CH 25V 0. 1U 1
C96		C. CAPACITOR CH 25V 0.1U	1	C3264	ECUX1H22OJOV C. CAPACITOR CH 50V 22P 1
C96	ECUX1H103KBV	C. CAPACITOR CH 50V 0, 01U	_1	C3265	ECUXTE104ZFV C. CAPACITOR CH 25V O. 1U 1
C96 C103		C. CAPACITOR CH 50V 0, 01U C. CAPACITOR	1	C3265 C3266	ECUXTETO4ZFV C. CAPACITOR CH 25V 0.1U 1 ECUXTH22OJCV C. CAPACITOR CH 50V 22P 1
C96 C103 C141	ECUX1H103KBV		1		

Dec. 15.00 Part No. Part No										AU-DZUUNE
Section	Pof No	Part No	Part Name & Description	Pos	Remarks	Ref No.	Part No.	Part Name & Description	Pc	s Remarks
Description Computer Comput				_	Nonet No					1
DEFF Description Descrip				1			ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	1	
Control Cont				1		C4107	ECST1AC476Z	T. CAPACITOR CH 10V . 47U	1	1
STATE Content Conten			C. CAPACITOR CH 50V 220P	2		C4108	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U		1
Control Cont			G. CAPACITOR CH 25V 0. 1U	8		C4110	ECUX1H222KBV	C. CAPACITOR CH 50V 2200P		1
Description Description			C. CAPACITOR CH 25V 0. 1U	1		G4111, 12	ECEVOJV3300	E. CAPACITOR CH6. 3V 33U	1	2
STATE STATE CAMPATION OF 150 10 1 1 1 1 1 1 1 1		ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1		G4113, 14	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	:	2
Control Cont		ECUX1E104ZFV	C. CAPACITOR CH 25V 0. 1U	1.		C4115, 16	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	2
Control Cont		ECUX1H150JCV	C. CAPACITOR CH 50V 15P	1		C4117	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P		1
CONTINUED CONTINUED CONTINUED AT 287 0. U. U. I. C.	03314-17	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4		C4118	EGUX1H221JGV	C. CAPACITOR CH 50V 220P		1
SECURITION CONTRIBUTION CONTRIBUTION OF SUM OF A CONTRIBUTION OF SUM OF A CONTRIBUTION CONTRIB	G3319	ECUX1H68OJCV	C. CAPACITOR CH 50V 68P	1		C4119	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	Γ	1
Column C	03320	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C4120	ECUX1H470JCV	C. CAPACITOR CH 50V 47P		1
Control Cont	03321	ECUX1H560JCV	C. CAPACITOR CH 50V 56P	1		C4121	ECEV1CV100Q	E. CAPACITOR CH 16V 10U		1
CONTROL CONTROL CAPACITOR OR 18 ST 10 1 1 1 1 1 1 1 1	C3322	ECUX1H47OJCV	C. CAPACITOR CH 50V 47P	1		C4122	ECUM1C105KBM	C. CAPACITOR CH 16V 1U		1
CORDINATION C. AMPORTOR & D. EW. 1000 1	03323	ECUX1H560JCV	C. CAPACITOR CH 50V 56P	1		C4123	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U		1
CORPORTION CONTINUED CAMPACTION OIL 90 VII 0 CAM	03324	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		G4124	ECEVOJV470Q	E. CAPACITOR CH6. 3V 47U		1
SECURITY SECURITY	C3500	ECUX1H102JV	C. CAPACITOR CH 50V 1000P	. 1		C4125, 26	ECHU1H104JB	P. CAPACITOR 50V 0.1U	L	2
CHIEF CONTINUED COMPANITOR OF STY 0.10 1 1 1 1 1 1 1 1 1	C3501-08	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	8	·	C4129	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	Ŀ	1
Continue Continue	C3509, 10	ECUX1H122KBV	C. CAPACITOR CH 50V 1200P	2		C4130	ECEV1CV220Q	E. CAPACITOR CH 16V 22U	L	1
Control Cont	C3511-14	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4		C4131	ECUX1E104ZFV		L	1
CHAPT CONTINUENT CAMPATITION CAMPATI	03515	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1		C4132	ECUX1H151JCV		L	1
Content	03516-22	ECUX1E104ZFV							⊬	
CORSIDE CONTINUE FOR PARTY OF 1 CONTINUE	C3523-26	ECUX1H152KBV							-	
CASES CASE	03527-29			3					╌	·
CORREST CONTINUED CAPACITRE OIL ST 0.1 0. 0. 0. 0. 0. 0. 0	C3530			1	 				₩	<u> </u>
Control Cont	C3531			_1					+	
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CAG31 ECUNITIOSZPN C. CAPACITOR CH 16V 1U 1 CAG32 ECUXIHISLACY C. CAPACITOR CH 50V 50P 1 CAG32 ECUXIHISLACETY C. CAPACITOR CH 50V 0.1U 1 CAG33 ECUXIHISCACETY C. CAPACITOR CH 25V 0.1U 1 CAG34 ECUXIHISCACETY C. CAPACITOR CH 25V 0.1U 1 CAG35 ECUXIHISCACETY C. CAPACITOR CH 25V 0.1U 1 CAG36 ECUXIHISCACETY C. CAPACITOR CH 25V 0.1U 1 CAG37 ECUXIHISCACETY C. CAPACITOR CH 25V 0.1U 1 CAG38 ECUXIHISCACETY C. CAPACITOR CH 25V 0.1U 1 CAG39 ECUXIHISCACET				2		C4231	ECUX1E104ZFV	C, CAPACITOR CH 25V 0.1U	Г	1
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CADACO COMMINICATION CAPACITOR CH 16V 1U 1	04034	ECEVOJV3300	E. CAPACITOR CH6. 3V 33U	1		C4236	ECEVOJV220Q	E. CAPACITOR CH6. 3V 22U		1
C4036 ECUMICIOSKSM C. GAPACITOR CH 16V 1U 1			C. CAPACITOR CH 25V 0. 1U	_ 1		C4237	ECEV1CV100Q	E. CAPACITOR CH 16V 10U		1
C4037 ECEVICVIOQ0 E. CAPACITOR CH 16V 10U 1				1		C6001~05	ECUM1H104ZFN	C. CAPACITOR CH 50V 0. 1U		
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CA040 ECSTITY/884Z T. CAPACITOR CH 35V 0.68U 1 C8011 ECUNIFICACION CH 50V 12P 1 C8011 ECUNIFICACION CH 50V 1U 1 C8011, 12 ECUNIFICACION CH 50V 0.01U 2 C80402 ECUNIFICACION CH 50V 0.01U 1 C8011, 12 ECUNIFICACION CH 50V 0.01U 1 C8011, 12 ECUNIFICACION CH 50V 0.01U 1 C8011, 12 ECUNIFICACION CH 50V 0.01U 1 C8013 ECUNIFICACION CH 50V 0.01U 1 C8014 ECUNIFICACION CH 50V 0.01U 5 C8014 ECUNIFICACION CH 50V 0.01U 5 C8014 ECUNIFICACION CH 50V 0.01U 1 C8014 ECUNIFICACION CH 50V 0.01U	C4038	ECUX1E104ZFV	C. CAPACITOR CH 25V O. 1U	1		C6008	ECEV1CV100Q		L	1
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C4046 ECUMICIOSKSW C. CAPACITOR CH 16V 1U 1 C4047 ECEVICVICOQ E. CAPACITOR CH 16V 1U 1 C4048 ECEVOLVICIQ E. CAPACITOR CH 6.3V 100U 1 C4048 ECEVOLVICIQ E. CAPACITOR CH 6.3V 100U 1 C4049 ECUXIEIO4ZFV C. CAPACITOR CH 16V 10U 1 C4050 ECEVICVICOQ E. CAPACITOR CH 16V 10U 1 C4051 ECUXIHISZKSV C. CAPACITOR CH 50V 1800P 1 C4052 ECUXIHISZKSV C. CAPACITOR CH 25V 0.1U 12 C4053 ECUXIHISZKSV C. CAPACITOR CH 50V 1800P 1 C4058 ECUXIHISZKSV C. CAPACITOR CH 50V 1800P 1 C4059 ECEVICVICOQ E. CAPACITOR CH 16V 47U 1 C4059 ECEVICVICOQ E. CAPACITOR CH 16V 47U 1 C4062 ECUXIHISZKSV C. CAPACITOR CH 16V 47U 1 C4063 ECUXIHISZKSV C. CAPACITOR CH 16V 47U 1 C4064 ECUXIHISZKSV C. CAPACITOR CH 16V 47U 1 C4065 ECUXIHISZKSV C. CAPACITOR CH 16V 47U 1 C4066 ECUXIHISZKSV C. CAPACITOR CH 16V 47U 1 C4067 ECEVICVICOQ E. CAPACITOR CH 16V 47U 1 C4068 ECUXIHISZKSV C. CAPACITOR CH 50V 1800P 1 C4068 ECEXIHISZKSV C. CAPACITOR CH 50V 1800P 1 C4068 ECEXIHISZKSV C. CAPACITOR CH 50V 1800P 1 C4069 ECEVICVICOQ E. CAPACITOR CH 50V 47DP 2 C4101, 02 ECUXIHISZKSV C. CAPACITOR CH 50V 47DP 2 C4103, 04 ECHUIHIOAJB P. CAPACITOR S0V 10U 1 D3200-03 MA142MK DIODE 4 C4103, 04 ECHUIHIOAJB P. CAPACITOR S0V 0, 1U 2 D4003 MA3220 DIODE 1	04043	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1					-	
C4047 ECEVICV100Q E. CAPACITOR CH 16V 10U 1 C4048 ECEVOLV101Q E. CAPACITOR CH 8.3V 100U 1 C4049 ECUXIE104ZFV C. CAPACITOR CH 25V 0. 1U 1 C4050 ECEVICV100Q E. CAPACITOR CH 16V 10U 1 C4051 ECUXIH182KBV C. CAPACITOR CH 50V 1800P 1 C4052 ECUXIH182KBV C. CAPACITOR CH 25V 0. 1U 12 C4053 ECUXIH182KBV C. CAPACITOR CH 50V 1800P 1 C4054 ECUXIH182KBV C. CAPACITOR CH 50V 1800P 1 C4055 ECUXIH182KBV C. CAPACITOR CH 50V 1800P 1 C4056 ECUXIH182KBV C. CAPACITOR CH 50V 1800P 1 C4057 ECUXIH182KBV C. CAPACITOR CH 50V 1800P 1 C4058 ECUXIH182KBV C. CAPACITOR CH 50V 1800P 1 C4059 ECEVICV470Q E. CAPACITOR CH 50V 1800P 1 C4062 ECUXIH182KBV C. CAPACITOR CH 50V 1800P 1 C4063 ECUXIH182KBV C. CAPACITOR CH 50V 1800P 1 C4064 ECEVICV470Q E. CAPACITOR CH 50V 1800P 1 C4065 ECUXIH193KBV C. CAPACITOR CH 50V 1800P 1 C4066 ECEVICV470Q E. CAPACITOR CH 50V 47P 1 C4062 ECECAU3131 E. CAPACITOR CH 50V 47P 2 C4103, 04 ECHU1H104JB P. CAPACITOR 50V 10U 1 D3200-03 MA142MK D10DE 4 C4103, 04 ECHU1H104JB P. CAPACITOR 50V 0. 1U 2 D4003 MA3220 D10DE 1	C4045	ECEV1CV100Q							+	
C4048 ECEVOLVI010 E. CAPACITOR CH6. 3V 100U 1 C4049 ECUXIE104ZFV C. CAPACITOR CH 25V 0. 1U 1 C4050 ECEVICVI000 E. CAPACITOR CH 16V 10U 1 C4051 ECUXIE104SBV C. CAPACITOR CH 50V 1800P 1 C4052-57 ECUXIE104KBN C. CAPACITOR CH 25V 0. 1U 6 C4058 ECUXIH192KBV C. CAPACITOR CH 50V 1800P 1 C4059 ECEVICVI000 E. CAPACITOR CH 50V 1800P 1 C4050 ECUXIH192KBV C. CAPACITOR CH 50V 1800P 1 C4058 ECUXIH192KBV C. CAPACITOR CH 50V 1800P 1 C4059 ECEVICVI000 E. CAPACITOR CH 50V 1800P 1 C4059 ECEVICVI000 E. CAPACITOR CH 50V 1800P 1 C4062 ECEVICVI000 E. CAPACITOR CH 50V 1800P 1 C4063 ECEVICVI000 E. CAPACITOR CH 50V 1800P 1 C4064 ECEVICVI000 E. CAPACITOR CH 50V 1800P 1 C4065 ECEVICVI000 E. CAPACITOR CH 50V 47P 1 C4066 ECEVICVI000 E. CAPACITOR CH 50V 47U 1 C4062 ECEACAU331 E. CAPACITOR CH 50V 47D 1 C4062 ECEACAU331 E. CAPACITOR CH 50V 47D 2 C4101, 02 ECUXIH471UCV C. CAPACITOR CH 50V 47D 2 D4001, 02 ECUXIH471UCV C. CAPACITOR CH 50V 47D 2 D4003 MA3220 D10DE 1	C4046	ECUM1C105KBM		_					+	
C4049 ECUXIE104ZFV © C. CAPACITOR CH 25V Ø D. 1U 1 C8035, 28 ECUXIE104ZFV © C. CAPACITOR CH 25V Ø D. 1U 2 C4050 ECEVICV100Q E. CAPACITOR CH 16V 10U 1 C8030-41 ECUXIE104ZFV © C. CAPACITOR CH 25V Ø D. 1U 12 C4051 ECUXIH182KBV © C. CAPACITOR CH 50V 1800P 1 C4052-57 ECUXIE104KBN © C. CAPACITOR CH 25V Ø D. 1U 6 C8052 ECUXIH103KBV © C. CAPACITOR CH 50V 0.0 TU 1 C4058 ECUXIH182KBV © C. CAPACITOR CH 50V 1800P 1 C8053 ECUXIH103KBV © C. CAPACITOR CH 50V 47P 1 C8055 ECUXIE104XFV © C. CAPACITOR CH 50V 47P 1 C8055 ECUXIE104XFV © C. CAPACITOR CH 50V 47P 1 C8055 ECUXIE104XFV © C. CAPACITOR CH 50V 47P 1 C8055 ECUXIE104XFV © C. CAPACITOR CH 50V 47P 1 C8055 ECUXIE104XFV © C. CAPACITOR CH 25V Ø D. 1U 1 C4062 ECEADU331 E. CAPACITOR 6. 3V 330U 1 D3200-03 MA142MK D10DE 4 C4101, 02 ECUXIH471JCV © C. CAPACITOR CH 50V 47P 2 D4001, 02 MA143 D10DE 2 C4103, 04 ECHUIH104JB P. CAPACITOR 50V 0. 1U 2 D4003 MA3220 D10DE 1	C4047	ECEV1CV1000		-					-	
C4050 ECEVIGV100Q E. GAPACITOR CH 16V 10U 1 C4051 ECUXIH182KBV C. CAPACITOR CH 50V 1800P 1 C4052-57 ECUXIE104KBN C. CAPACITOR CH 25V 0. 1U 6 C4058 ECUXIH182KBV C. CAPACITOR CH 50V 1800P 1 C4059 ECEVICV470Q E. CAPACITOR CH 16V 47U 1 C4062 ECEAOJU331 E. CAPACITOR CH 30V 330U 1 C4063 ECEAIHU100 E. CAPACITOR CH 50V 10U 1 C4063 ECEAIHU100 E. CAPACITOR CH 50V 10U 1 C4064 ECEAIHU100 E. CAPACITOR CH 50V 470P 2 C4103, 04 ECHUIH104JB P. CAPACITOR CH 50V 0. 1U 2 C4103, 04 ECHUIH104JB P. CAPACITOR 50V 0. 1U 2	C4048	ECEVOJV101Q							 	
C4051 ECUX1H18ZKBV 0. CAPACITOR CH 50V 1800P 1 C4052-57 ECUX1E104KBN 0. CAPACITOR CH 25V 0. 1U 6 C4058 ECUX1H18ZKBV 0. CAPACITOR CH 50V 1800P 1 C4058 ECUX1H18ZKBV 0. CAPACITOR CH 50V 1800P 1 C4059 ECEVICV470Q E. CAPACITOR CH 16V 47U 1 C4062 ECEA0JU331 E. CAPACITOR 6. 3V 330U 1 C4063 ECEAIHU100 E. CAPACITOR 6. 5V 10U 1 C4063 ECEAIHU100 E. CAPACITOR CH 50V 470P 2 C4103, 04 ECHU1H104JB P. CAPACITOR CH 50V 0. 1U 2 C4103, 04 ECHU1H104JB P. CAPACITOR 50V 0. 1U 2	C4049								╁	_h
C4052-57 ECUX1E104KBN C. CAPACITOR CH 25V 0. 1U 6 C4058 ECUX1H182KBV C. CAPACITOR CH 50V 1800P 1 C4059 ECEVICV470Q E. CAPACITOR CH 16V 47U 1 C4062 ECEADJU331 E. CAPACITOR 6. 3V 330U 1 C4063 ECEATHU100 E. CAPACITOR SOV 10U 1 C4101, 02 ECUX1H471JCV C. CAPACITOR CH 50V 47OP 2 C4103, 04 ECHU1H104JB P. CAPACITOR SOV 0. 1U 2 C4103, 04 ECHU1H104JB P. CAPACITOR SOV 0. 1U 2	C4050			-					-	
C4058 ECUX1H182KBV G. CAPACITOR CH 50V 1800P 1 C4059 ECEVICW470Q E. CAPACITOR CH 16V 47U 1 C4062 ECEAOJU331 E. CAPACITOR 6. 3V 330U 1 C4063 ECEAIHU10O E. CAPACITOR SOV 10U 1 C4101, 02 ECUX1H471JCV C. CAPACITOR CH 50V 47OP 2 C4103, 04 ECHU1H104JB P. CAPACITOR SOV 0. 1U 2 C4103, 04 ECHU1H104JB P. CAPACITOR SOV 0. 1U 2	C4051									
C4058 E0EVICATION OF CHIRCH 16V 47U 1 C4062 E0EAOJU331 E. CAPACITOR 6. 3V 330U 1 C4063 E0EAIHU100 E. CAPACITOR 50V 10U 1 C4101, 02 ECUXIH471JCV C. CAPACITOR CH 50V 470P 2 C4103, 04 ECHUIH104JB P. CAPACITOR 50V 0. 1U 2 C4103, 04 ECHUIH104JB P. CAPACITOR 50V 0. 1U 2				_					-	
C4062 ECEAOJU331 E. CAPACITOR 6. 3V 330U 1 C4063 ECEATHU100 E. CAPACITOR 50V 10U 1 C4101, 02 ECUX1H471JCV C. CAPACITOR CH 50V 470P 2 C4103, 04 ECHU1H104JB P. CAPACITOR 50V 0. 1U 2 D4001, 02 MA143 D10DE 2 C4103, 04 ECHU1H104JB P. CAPACITOR 50V 0. 1U 2 D4003 MA3220 D10DE 1								······································		
C4083 ECEATHU100 E. CAPACITOR 50V 10U 1 D3200-03 MA142WK D10DE 4 C4101, 02 ECUX1H471JCV C. CAPACITOR CH 50V 470P 2 C4103, 04 ECHU1H104JB P. CAPACITOR 50V 0. 1U 2 D4001, 02 MA143 D10DE 2 D4003 MA3220 D10DE 1 D4003 MA3220 D10DE 1	C4059					C6055	EGUX1E104ZFV	U. GAPACITUR CH 25V 0.10	-	
C4101, Q2 ECUX1H471JQV C. CAPACITOR CH 50V 470P 2 D4001, Q2 MA143 D10DE 2 C4103, Q4 ECHUIH104JB P. CAPACITOR 50V Q. 1U 2 D4003 MA322Q D10DE 1						D0000 00	MA1ADOM	DIODE	\vdash	
C4103, 04 ECHUIH104JB P. CAPACITOR 50V 0. 1U 2 D4003 MA3220 D10DE 1									Ľ	<u> </u>
04104, 04 2010/11/0400				_					╂	
	C4103, 04	ECHU1H104JB	IP. CAPACITOR 50V 0.1U	_ 2		D4003	m/NOZZU	D I VIDE	╁-	<u> </u>
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Ref. No.	Part No.	Part Name & Description	Pes	Remarks	Ref. No.	Part No.	Part Name & Description	Pc	s Remarks
		DIODE	1		104004	XC62AP3002P	IC	1	
		DIODE	2		104005	NJMO62M-D	10	1	
		DIODE	1		104006	AK4503VF	10		
			1		104007	TC7W125FU	10	-	
D4104		DIODE	<u> </u>			BA6138F	10		
D4201, 02		DIODE	2		104008		 	1	
D4203	MA715	DIODE	1		104009	MC14053BF	10	1	
D4204	MA142K	DIODE	1		104010	NJM062M-D	10		
D6001-08	MA715	DIODE	_ 8		104011	CXA1102M	10		
		-			104012	NJMO62M-D	10	1	1)
FGD1	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	1		104013	BA7785FS	10	\prod_{i}	1
1	Zitobaz i avia				104101	NJM062M-D	10	1	1
	VLF1118	FILTER	1		104102	NJM4580ED	10		1
FL1			1		IG4201	NJMO62M-D	10	1	;
FL3001	VLF0941C223	FILTER	 `				10	H:	
FL4001	VLF1069	FILTER	1		104202	NJM4580ED		1-	1
					106001	M31010M6104H	10	<u> </u>	'
101	MN67372A2	IC	1		106002	MAX3223CAP	10	1	
102	MN4707F	10	1		106003	S80727ANDQ	10	1	1
103	MN673711	10	1		106009	TCVHC138FS	10	1	· [
1G4	L7A1433	10	1		106010	TCVHC04FS	ic	1	
105	L7A1434	10	1		106011	MBLV80B12PF	10	1	
	XC62AP2302P	10	1		1C6012	KM68V1BL	10	۲.	<u> </u>
106			2		106012	T163G26-1019	10		
107, 08	TC7SH08FU	10	12					1	
109	TCVHC125FS	1C	1		106014, 15		10	├ ~	
1010	TC7S66FU	10	\perp 1		106016	UP06456T611Y	10	1	
1011	M65401FP	10	11		106018	KM68V1BL	10	11	<u> </u>
1012	TC7WO4FU	10	1		L	L		L	
1013	M52660FP	10	1		L1	VLP0145	COIL	1	
1016	MB81V4260S7	10	1		L3-L5	VLP0155	COIL	3	3
1019	XC62AP3002P	10 .	1		L6, L7	VLQ0319K101	COIL 100UH	1 2	2
		10	1		L8	VLQ0163J220	COIL 22UH	1	
1020	XC62AP5002P		 '			VLQ01555	COIL	-	
1022	M62370GP	IC	1		L11		 	├-	
1023	XC62AP5002M	10	1		L23	VLQ0464K6R8	COIL 6. 8UH	- '	1
1C24	XC62AP3002M	10	1		L34	VLQ0319K101	COIL 100UH	_1	
1025	TC7SH08FU	10	1		L42	VLP0145	COIL	_1	(
1030	XC620N5002P	1C	1		L44	VLQ0464K6R8	COIL 6. BUH	_1	<u> </u>
1033	T160G11-1233	10	1		L501	VLQ0464K6R8	COIL 6.8UH	1	· i
1036	TCVHCO8FS	10	1		L1001-10	VLF1315A102	FILTER	10	ol
1037	TC7SH08FU	10	1		L1011, 12	VLP0147	COIL	2	2
1040	AD817AR	10	1		L3001	VLQ0319K220	COIL 22UH	1	
		ic	+		L3002, 03	VLQ0319K101	COIL 100UH	2	
1041	AD790JR		- -					1	
1C42	TC7SH08FU	10	1		L3100-03	VLQ0163J2R2	CO1L 2. 2UH	-	
1043	NJM2535M	10			L3200-03	VLQ0163J330	COIL 33UH	4	
1045	TCVHC161FS	10	1		L3300, 01	VL00163J1R0	COIL 1UH	2	2
1046	TC7WUO4FU	10	1		L3303	VLQ0163JR22	COIL 0. 22UH	_1	1
1051	NJM2904M	10	1		L4001, 02	VLQ0163J100	COIL 10UH	2	2
10501	M37709M4L161	IC	1		L4101, 02	VLQ0163J100	COIL 10UH	_2	2
103001	TCVHC125FS	10	1		L4201, 02	VLQ0163J100	COIL 10UH	2	2
103002	TC7SO4FU	10	1		L6001	VLQ0319K100	COIL 100H	1	
103003	XC62AP5002P	10	1		L6002	VLQ0464K6R8	COIL 6. SUH	1	
	XC62AP3002P	10	1		L6003	VLQ0163J270	COIL 27UH	1	
103005			-			-240100270	2,7011	 '	
103006	XC62AP5002M	10	 			V (D00107145	CONNECTOR (MALE)	 - -	<u> </u>
103007	XC62DN5002P	10	1		P2	VJP3810E140		1	
103008	TCVHC125FS	10	1		P3	VJP3809E080	CONNECTOR (MALE)	1	<u> </u>
103009	TC7SOOFU	10	1	L	P4	VJS3406B025	CONNECTOR (FEMALE)	<u> </u>	`\
103010	TC7W02FU	10	1		P6	VJP3125B009	CONNECTOR (MALE)	1	
103011	TC7SO4FU	10	1		P7	VJP3125B008	CONNECTOR (MALE)	1	·
103100	TC7WO4FU	10	_ 1		P8	VJS3406D014	CONNECTOR (FEMALE)	1	
103101	TC7#OOFU	10	1		P9, 10	VJP3125B010	CONNECTOR (MALE)	2	!
103200, 01		10	2		P11	VJ\$3406B025	CONNECTOR (FEMALE)	1	;
103203	NJMO62M-D	10	1		P12	VJP3125B003	CONNECTOR (MALE) 3P	1	.
	XC62DN5002P	10	1		P13	VJP3950A002	CONNECTOR (MALE)	1	
103204			2		P14	VJP3125B008	CONNECTOR (MALE)	1	
	TC4S69F	10						 	
103208	UPC1663G	10	1		P3001	VJS3899B013	CONNECTOR (FEMALE)	-'	
103209	TC7W32FU	10	1		P3002	VJP3358C012	CONNECTOR (MALE)	1	
103210, 11	TC7SO4FU	10	2					<u> </u>	<u> </u>
103300	UPC5102GS030	10	1		Q6	2SB1218A-R	TRANSISTOR	1	
103302	UPC1663G	10	1		Q8	2SB1218A-R	TRANSISTOR	1	
103303	TC7WO8FU	10	1		Q3001	2SB1114	TRANSISTOR	1	
103304	TC7W04FU	10	1		Q3002	2SD1280-S	TRANSISTOR	1	
	AN3730FA	10	1		Q3003	2SB1218A-R	TRANSISTOR	\vdash_{i}	
103500			 			2SB710A-R	TRANSISTOR	+	
103501	AN3740FAP	10	-		Q3100		·	-	
103502	MC14053BF	10	1		03101	2SD1819A-R	TRANSISTOR	1	
104001	UPC5022GA121	10	1			2SC3735B35	TRANSISTOR	2	
104002	HD151015	10	1		Q3104	2SB710A-R	TRANSISTOR	1	<u> </u>
104003	MC74HCUO4F	10	1		Q3105	2SD1819A-R	TRANSISTOR	1	
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Bef 100 Part No.							,			,
Section Control Cont	Pof No	Part No	Part Name & Description	Pes	Remarks	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
MAINTERS MAINTERS						R189	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	1	
March Marc				1				M. RESISTOR CH 1/16W 2.2K	1	
200700, 00									2	
				1					١,	
December Company Com			······································	 ' 					1	
March Marc				1 7					 	ļ
March Marc	03210	2803935		++					-	
March Marc	Q3212, 13	2SA1532-B	TRANSISTOR	2					₩.	
December Company Com	Q3214	2802954	TRANSISTOR	1		R233	VRE0071E122		1	
Material Material	Q3215	2SA1532~B	TRANSISTOR	1		R234	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	1	
Column C		2501979	TRANSISTOR	4		R235	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	1
2025.00 2015162-9 TAMASISTOR 1 R239 SAUSPORCE 1 1 1 1 1 1 1 1 1				2		R236	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
March Marc				1		R237	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
December December				+			FRJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
December Company Com									١,	
March Marc	Q3228	2SD1280-S		1					+-:	
2001 14	Q3229	2SB1218A-R	TRANSISTOR	11	·				 '	
MARCHEST MARCHEST	Q3230	2SB1114	TRANSISTOR	111					-	
Company	Q3235	2SB1114	TRANSISTOR	1		R242	ERJ3GEYJ123		1	
	03300	XN5531	TRANSISTOR-RESISTOR	1		R243	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
			TRANSISTOR	2		R244	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	l l
COLOR MARCIST TANASISTRY				1		R245	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	Ti	1
March Marc				1					1	
March Marc				+-;					T	1
Modern M				 						
ACCOUNTS TANISHSTORM				1-4					-	
Quality Qual	Q3502	2SB1218A-R		11					1	<u>' </u>
MARCH MARC	Q4001	2SD1819A-R	TRANSISTOR	11						
GROOD SESTION-R TRANSISTOR 1 RESISTOR ON 1/108 2% 1 RESISTOR ON 1/108 1% 1 RESISTOR ON 1/108 0% 1 RESIST	04002	2SD602A-R	TRANSISTOR	1		R290			1 1	<u> </u>
Decoding		2\$B710A-R	TRANSISTOR	1		R291	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
Deciding				1		R292	VRE0071E183	M. RESISTOR CH 1/16W 18K	1	[
CARDON CARDING CARDI				11		R293	VRE0071E123	M. RESISTOR CH 1/16W 12K		1
CHICAGO CREATED CREA				1		R294	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	1	1.
CALIFORCES STUDIAL PART TRANSISTOR 3 RESISTOR OF 1 / 100 1 1 1 1 1 1 1 1 1			· · · · · · · · · · · · · · · · · · ·	-				· · · · · · · · · · · · · · · · · · ·	1	
CARDING CARD				+					١,	
AGRICATION CARREST C	Q4103-05			+					+	
CRESCO UNIDED 1	04201, 02	2SD1979	TRANSISTOR						+	
Page Page	Q4203~05	2SD1819A-R	TRANSISTOR	3	:	R512			1	
GR3010_01 UNE213						R513, 14	ERJ3GEYJ473		1-3	2
RS100_01 UNS213 TRANSISTOR-RESISTOR 2 RS21 RS252_23 ERJORCYCORO RESISTOR CH 1/69 18 1	QR3001	UN5213	TRANSISTOR-RESISTOR	1		R515, 16	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	2
R00200_01 MRS213		UN5213	TRANSISTOR-RESISTOR	2		R519, 20	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	1	2
MR4001			TRANSISTOR-RESISTOR	2		R521	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M		1.
DRAFOCO UNB2113 TRANSISTOR-RESISTOR 1 RES2-2E RAGREYATOZ RESISTOR CH 1/168 N 1 RES2-2E RAGREYATOZ RESISTOR CH 1/168 O 1 RES2-2E RAGREYATOZ RESISTOR CH 1/168 O 1 RES2-2E RAGREYATOZ RESISTOR CH 1/168 O 2 RAGREYATOZ RESISTOR CH 1/168 O 2 RES2-2E RAGREYATOZ RESISTOR CH 1/168 O 1 RES2-2E RAGREYATO	<u></u>			1		R522, 23	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0		2
CRADGO				1		R524-26	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	3
GRADOM UNISCI TRANSISTOR-RESISTOR 1 RESUMPTION RESISTOR CH 1/109 0 2									1	1
RESISTOR CH 1/16W 1 1 1 1 1 1 1 1 1							1		1	2
RESISTOR CH 1/16W 10K 2	QR4004		ļ	+-!					+	
GREDOS UNS214 TRANSISTOR-RESISTOR 1 RESISTOR CH 1/16W 1K 1 1 1 1 1 1 1 1	QR4005	UN5213	TRANSISTOR-RESISTOR	1-4		<u> </u>				· · · · · · · · · · · · · · · · · · ·
GREDOLO, 0 UNS214	QR6001-04	UN5114	TRANSISTOR-RESISTOR	4			1			
RR0000, 07 UMS213	QR6005	UN5214	TRANSISTOR-RESISTOR				ERJ3GEYJ102		┺	
RR0008 URS214 TRANSITION-RESISTOR 3 RT009 RRJ3GEVOROO M. RESISTOR CH 1/16W O 1	QR6006, 07	UN5213	TRANSISTOR-RESISTOR	2		R546, 47	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0		
RR010 R. R. R. R. R. R. R. R	QR6008	UN5214	TRANSISTOR-RESISTOR	1		R1001-08	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K		8
RR012 13 UM5211	QR6009-11	UN221L	TRANSITOR-RESISTOR	3		R1009	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	Ŀ	1
R3001 EPJ3GEYJ103 RESISTOR CH 1/16W 10K 1				2		R1011	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	Γ.	1
R3003 ERJ3GEYJ473 M. RESISTOR CH 1/16W 47K 1				+		'R3001	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	Τ	1
R22 RJJGEYOROO R. RESISTOR CH 1/16W 0 1 RJJGEYGIS2 M. RESISTOR CH 1/16W 1.5K 1 RJJGEYJI03 M. RESISTOR CH 1/16W 10K 1 RJJGEYJI03 M. RESISTOR CH 1/16W 22K 1 RJJGEYJI03 M. RESISTOR CH 1/16W 47K 1 RJJGEYJI03 M. RESISTOR CH 1/16W 22K 1 RJJGEYJI03 M. RESISTOR CH 1/16W 47K 1 RJJGEYJI03 M. RESISTOR CH 1/16W 10K 2 RJJGEYJI03 M. RESISTOR CH 1/16W 22K 1 RJJGEYJI03	UR(0014-10	UN3213	TRANSISTOR RESTORM	+				M RESISTOR CH 1/16W 47K	1	1
R31 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R34 ERJ3GEYJ103 M. RESISTOR CH 1/16W 22K 1 R41 ERJ3GEYGROO M. RESISTOR CH 1/16W 0 1 R42 ERJ3GEYJ103 M. RESISTOR CH 1/16W 0 0 1 R44 ERJ3GEYJ105 M. RESISTOR CH 1/16W 10O 1 R47 ERJ3GEYJ105 M. RESISTOR CH 1/16W 10O 1 R52, 53 ERJ3GEYJ105 M. RESISTOR CH 1/16W 0 0 2 R54 ERJ3GEYJ105 M. RESISTOR CH 1/16W 0 0 1 R55 ERJ3GEYJ105 M. RESISTOR CH 1/16W 0 0 2 R56 ERJ3GEYJ105 M. RESISTOR CH 1/16W 0 0 1 R57 ERJ3GEYJ105 M. RESISTOR CH 1/16W 10K 1 R58 ERJ3GEYJ105 M. RESISTOR CH 1/16W 10K 1 R59 ERJ3GEYJ105 M. RESISTOR CH 1/16W 10K 1 R50 ERJ3GEYJ105 M. RESISTOR CH 1/16W 10K 1 R51 ERJ3GEYJ105 M. RESISTOR CH 1/16W 10K 1 R58 ERJ3GEYJ105 M. RESISTOR CH 1/16W 10K 1 R59 ERJ3GEYJ105 M. RESISTOR CH 1/16W 10K 1 R50 ERJ3GEYJ105 M. RESISTOR CH 1/16W 10K 1 R51 ERJ3GEYJ105 M. RESISTOR CH 1/16W 10K 1 R58 ERJ3GEYJ105 M. RESISTOR CH 1/16W 10K 1 R59 ERJ3GEYJ222 M. RESISTOR CH 1/16W 10K 1 R60 ERJ3GEYJ475 M. RESISTOR CH 1/16W 10K 1 R61 ERJ3GEYJ475 M. RESISTOR CH 1/16W 0 1 1 R62 ERJ3GEYJ475 M. RESISTOR CH 1/16W 0 2 2 1 R64 ERJ3GEYJ475 M. RESISTOR CH 1/16W 0 2 2 1 R65 ERJ3GEYJ475 M. RESISTOR CH 1/16W 0 2 2 1 R66 ERJ3GEYJ475 M. RESISTOR CH 1/16W 0 2 2 1 R67 ERJ3GEYJ475 M. RESISTOR CH 1/16W 0 2 2 1 R68 ERJ3GEYJ475 M. RESISTOR CH 1/16W 0 2 2 1 R69 ERJ3GEYJ475 M. RESISTOR CH 1/16W 0 2 2 1 R60 ERJ3GEYJ475 M. RESISTOR CH 1/16W 0 2 2 1 R61 ERJ3GEYJ475 M. RESISTOR CH 1/16W 0 2 2 1 R62 ERJ3GEYJ475 M. RESISTOR CH 1/16W 0 2 2 1 R63 ERJ3GEYJ475 M. RESISTOR CH 1/16W 0 2 2 1 R64 ERJ3GEYJ475 M. RESISTOR CH 1/16W 0 2 2 1 R65 ERJ3GEYJ475 M. RESISTOR CH 1/16W 0 1 1 R67 ERJ3GEYJ475 M. RESISTOR CH 1/16W 0 1 1 R68 ERJ3GEYJ475 M. RESISTOR CH 1/16W 0 1 1 R69 ERJ3GEYJ475 M. RESISTOR CH 1/16W 0 1 1 R61 ERJ3GEYJ475 M. RESISTOR CH 1/16W 0 1 1 R61 ERJ3GEYJ475 M. RESISTOR CH 1/16W 0 1 1 R62 ERJ3GEYJ475 M. RESISTOR CH 1/16W 0 1 1 R63 ERJ3GEYJ475 M. RESISTOR CH 1/16W 0 1 1 R64 ERJ3GEYJ475 M. RESISTOR CH 1/16W 0 1 1 R65 ERJ3GEYJ475 M. RESISTOR CH 1/16W 0 1 1 R67 ERJ3GEYJ475 M. RESISTOR CH 1/16W 0 1		 	M DEGLOTOR ON 1/1/2	+.					1	1
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R44 ERJ3GEYJG20 M. RESISTOR CH 1/16W 0 1 1 R3007 ERJ3GEYJG3 M. RESISTOR CH 1/16W 100 1 1 R3008 ERJ3GEYJG3 M. RESISTOR CH 1/16W 100 1 1 R3008 ERJ3GEYJG3 M. RESISTOR CH 1/16W 100 1 1 R3009 ERJ3GEYJG3 M. RESISTOR CH 1/16W 100 1 1 R3009 ERJ3GEYJG3 M. RESISTOR CH 1/16W 0 1 1 R3009 ERJ3GEYJG3 M. RESISTOR CH 1/16W 0 1 1 R3009 ERJ3GEYJG3 M. RESISTOR CH 1/16W 0 1 1 R3009 ERJ3GEYJG3 M. RESISTOR CH 1/16W 0 1 1 R3009 ERJ3GEYJG3 M. RESISTOR CH 1/16W 0 1 1 R3100, O1 ERJ3GEYJG3 M. RESISTOR CH 1/16W 100 1 1 R3100, O1 ERJ3GEYJG3 M. RESISTOR CH 1/16W 100 1 1 R3100 ERJ3GEYJG3 M. RESISTOR CH 1/16W 100 1 1 R3104 ERJ3GEYJG3 M. RESISTOR CH 1/16W 100 1 1 R3104 ERJ3GEYJG3 M. RESISTOR CH 1/16W 100 1 1 R3104 ERJ3GEYJG3 M. RESISTOR CH 1/16W 100 1 1 R3104 ERJ3GEYJG2 M. RESISTOR CH 1/16W 2.2K 1 R3104 ERJ3GEYJG2 M. RESISTOR CH 1/16W 2.2K 1 R3104 ERJ3GEYJG2 M. RESISTOR CH 1/16W 2.2K 1 R3104 ERJ3GEYJG2 M. RESISTOR CH 1/16W 2.2K 1 R3104 ERJ3GEYJG2 M. RESISTOR CH 1/16W 2.2K 1 R3104 ERJ3GEYJG2 M. RESISTOR CH 1/16W 2.2K 1 R3104 ERJ3GEYJG2 M. RESISTOR CH 1/16W 2.2K 1 R3104 ERJ3GEYJG2 M. RESISTOR CH 1/16W 2.2K 1 R3106 ERJ3GEYJG2 M. RESISTOR CH 1/16W 2.2K 1 R3106 ERJ3GEYJG3 M. RESISTOR CH 1/16W 2.2K 1 R3106 ERJ3GEYJG2 M. RESISTOR CH 1/16W 2.2K 1 R3106 ERJ3GEYJG2 M. RESISTOR CH 1/16W 2.2K 1 R3106 ERJ3GEYJG2 M. RESISTOR CH 1/16W 2.2K 1 R3106 ERJ3GEYJG2 M. RESISTOR CH 1/16W 2.2K 1 R3106 ERJ3GEYJG2 M. RESISTOR CH 1/16W 2.2K 1 R3106 ERJ3GEYJG2 M. RESISTOR CH 1/16W 2.2K 1 R3110 ERJ3GEYJG2 M. RESISTOR CH 1/16W 2.2K 1 R3110 ERJ3GEYJG2 M. RESISTOR CH 1/16W 2.2K 1 R3111 ERJ3GEYJG2 M. RESISTOR CH 1/16W 2.2K 1 R3111 ERJ3GEYJG2 M. RESISTOR CH 1/16W 2.2K 1 R3111 ERJ3GEYJG2 M. RESISTOR CH 1/16W 2.2K 1 R3111 ERJ3GEYJG2 M. RESISTOR CH 1/16W 2.2K 1 R3114 ERJ3GEYJG2 M. RESISTOR CH 1/16W 2.2K 1 R3114 ERJ3GEYJG2 M. RESISTOR CH 1/16W 2.2K 1 R3114 ERJ3GEYJG2 M. RESISTOR CH 1/16W 2.2K 1 R3114 ERJ3GEYJG2 M. RESISTOR CH 1/16W 2.2K 1 R3114 ERJ3GEYJG2 M. RESISTOR CH 1/16W 2.2K 1 R3114 ERJ3GEYJG2 M. RESISTOR CH 1/16W 2.2K 1 R3114 ERJ3GEYJG2 M. RESISTOR CH 1/16W 2.2K 1 R3114 ERJ3	R31	ERJ3GEYJ103	· · · · · · · · · · · · · · · · · · ·	+-1					+	1
R41 ERJSEPUNDO M. RESISTOR CH 1/16W 100 1 R3008 ERJGGEYORO M. RESISTOR CH 1/16W 10K 1 R3009 ERJGGEYJ103 M. RESISTOR CH 1/16W 10K 1 R3009 ERJGGEYJ103 M. RESISTOR CH 1/16W 10K 1 R3009 ERJGGEYJ103 M. RESISTOR CH 1/16W 10K 1 R3009 ERJGGEYJ103 M. RESISTOR CH 1/16W 10K 1 R3009 ERJGGEYJ103 M. RESISTOR CH 1/16W 10K 2 R3100, 01 ERJGGEYJ103 M. RESISTOR CH 1/16W 10K 2 R3100, 01 ERJGGEYJ103 M. RESISTOR CH 1/16W 10K 2 R3100, 01 ERJGGEYJ103 M. RESISTOR CH 1/16W 10K 2 R3100, 01 ERJGGEYJ103 M. RESISTOR CH 1/16W 10K 2 R3102 ERJGGEYJ258 M. RESISTOR CH 1/16W 22K 1 R3103 ERJGGEYJ103 M. RESISTOR CH 1/16W 22K 1 R3103 ERJGGEYJ222 M. RESISTOR CH 1/16W 26K 1 R3104 ERJGGEYJ222 M. RESISTOR CH 1/16W 2.2K 1 R3105 ERJGGEYJ222 M. RESISTOR CH 1/16W 2.2K 1 R3105 ERJGGEYJ36W M. RESISTOR CH 1/16W 2.2K 1 R3105 ERJGGEYJ373 M. RESISTOR CH 1/16W 2.2K 1 R3105 ERJGGEYJ373 M. RESISTOR CH 1/16W 3.9K 1 R3105 ERJGGEYJ373 M. RESISTOR CH 1/16W 1.2K 1 R3106 ERJGGEYJ373 M. RESISTOR CH 1/16W 1.2K 1 R3106 ERJGGEYJ373 M. RESISTOR CH 1/16W 1.2K 1 R3106 ERJGGEYJ373 M. RESISTOR CH 1/16W 1.2K 1 R3106 ERJGGEYJ373 M. RESISTOR CH 1/16W 1.2K 1 R3106 ERJGGEYJ373 M. RESISTOR CH 1/16W 1.2K 1 R3106 ERJGGEYJ373 M. RESISTOR CH 1/16W 1.2K 1 R3106 ERJGGEYJ373 M. RESISTOR CH 1/16W 1.2K 1 R3106 ERJGGEYJ373 M. RESISTOR CH 1/16W 1.2K 1 R3106 ERJGGEYJ373 M. RESISTOR CH 1/16W 1.2K 1 R3107 ERJGGEYJ373 M. RESISTOR CH 1/16W 1.2K 1 R3107 ERJGGEYJ373 M. RESISTOR CH 1/16W 1.2K 1 R3111 ERJGGEYJ373 M. RESISTOR CH 1/16W 1.2K 1 R3111 ERJGGEYJ373 M. RESISTOR CH 1/16W 1.2K 1 R3111 ERJGGEYJ373 M. RESISTOR CH 1/16W 1.2K 1 R3111 ERJGGEYJ373 M. RESISTOR CH 1/16W 1.2K 1 R3111 ERJGGEYJ373 M. RESISTOR CH 1/16W 1.2K 1 R3111 ERJGGEYJ373 M. RESISTOR CH 1/16W 1.2K 1 R3111 ERJGGEYJ373 M. RESISTOR CH 1/16W 1.2K 1 R3111 ERJGGEYJ373 M. RESISTOR CH 1/16W 1.2K 1 R3114 ERJGGEYJ373 M. RESISTOR CH 1/16W 1.2K 1 R3114 ERJGGEYJ374 M. RESISTOR CH 1/16W 1.2K 1 R3114 ERJGGEYJ374 M. RESISTOR CH 1/16W 1.2K 1 R3114 ERJGGEYJ374 M. RESISTOR CH 1/16W 1.2K 1 R3114 ERJGGEYJ374 M. RESISTOR CH 1/16W 1.2K 1 R3114 ERJGGEYJ374 M. RES	R34	ERJ3GEYJ223							+	
RAZE RAJGEYJ105 M. RESISTOR CH 1/16W 10K 1 RS2, 53 ERJ3GEYJ103 M. RESISTOR CH 1/16W 0 2 RS4 ERJ3GEYJ563 M. RESISTOR CH 1/16W 56K 1 RS56 ERJ3GEYJ563 M. RESISTOR CH 1/16W 56K 1 RS57 ERJ3GEYJ563 M. RESISTOR CH 1/16W 10K 1 RS58 ERJ3GEYJ105 M. RESISTOR CH 1/16W 10K 1 RS58 ERJ3GEYJ105 M. RESISTOR CH 1/16W 10K 1 RS59 ERJ3GEYJ222 M. RESISTOR CH 1/16W 2.2K 1 RS60 ERJ3GEYJ222 M. RESISTOR CH 1/16W 2.2K 1 RS70 ERJ3GEYJ364 M. RESISTOR CH 1/16W 10K 1 RS104 ERJ3GEYJ222 M. RESISTOR CH 1/16W 2.2K 1 RS105 ERJ3GEYJ368 M. RESISTOR CH 1/16W 2.2K 1 RS106 ERJ3GEYJ368 M. RESISTOR CH 1/16W 2.2K 1 RS107 ERJ3GEYJ369 M. RESISTOR CH 1/16W 2.2K 1 RS108 ERJ3GEYJ369 M. RESISTOR CH 1/16W 2.2K 1 RS109 ERJ3GEYJ369 M. RESISTOR CH 1/16W 2.2K 1 RS100 ERJ3GEYJ369 M. RESISTOR CH 1/16W 2.2K 1 RS100 ERJ3GEYJ369 M. RESISTOR CH 1/16W 2.2K 1 RS100 ERJ3GEYJ369 M. RESISTOR CH 1/16W 2.2K 1 RS100 ERJ3GEYJ369 M. RESISTOR CH 1/16W 2.2K 1 RS100 ERJ3GEYJ369 M. RESISTOR CH 1/16W 3.9K 1 RS100 ERJ3GEYJ369 M. RESISTOR CH 1/16W 3.9K 1 RS107 ERJ3GEYJ369 M. RESISTOR CH 1/16W 0 2 RS108 ERJ3GEYJ369 M. RESISTOR CH 1/16W 0 2 RS108 ERJ3GEYJ369 M. RESISTOR CH 1/16W 1.2K 1 RS109 ERJ3GEYJ369 M. RESISTOR CH 1/16W 0 2 RS110 ERJ3GEYJ222 M. RESISTOR CH 1/16W 1.2K 1 RS111 ERJ3GEYJ222 M. RESISTOR CH 1/16W 1.2K 1 RS112 ERJ3GEYJ369 M. RESISTOR CH 1/16W 1.2K 1 RS112 ERJ3GEYJ369 M. RESISTOR CH 1/16W 1.2K 1 RS112 ERJ3GEYJ369 M. RESISTOR CH 1/16W 2.2K 1 RS114 ERJ3GEYJ329 M. RESISTOR CH 1/16W 2.2K 1 RS115 ERJ3GEYJ329 M. RESISTOR CH 1/16W 2.2K 1 RS116 ERJ3GEYJ329 M. RESISTOR CH 1/16W 2.2K 1 RS117 ERJ3GEYJ369 M. RESISTOR CH 1/16W 0 1 RS118 ERJ3GEYJ369 M. RESISTOR CH 1/16W 3.9K 1 RS119 ERJ3GEYJ369 M. RESISTOR CH 1/16W 3.9K 1 RS119 ERJ3GEYJ369 M. RESISTOR CH 1/16W 3.9K 1 RS119 ERJ3GEYJ392 M. RESISTOR CH 1/16W 3.9K 1 RS119 ERJ3GEYJ392 M. RESISTOR CH 1/16W 3.9K 1 RS119 ERJ3GEYJ392 M. RESISTOR CH 1/16W 3.9K 1 RS119 ERJ3GEYJ392 M. RESISTOR CH 1/16W 3.9K 1 RS119 ERJ3GEYJ392 M. RESISTOR CH 1/16W 3.9K 1 RS119 ERJ3GEYJ392 M. RESISTOR CH 1/16W 3.9K 1	R41	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	-					+	1
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R52, 53 ERJ3GEYOROO M. RESISTOR CH 1/16W O 2 R3101 ERJ3GEYOROO M. RESISTOR CH 1/16W O 1 R3100, 01 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 2 R3102 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 2 R3102 ERJ3GEYJ105 M. RESISTOR CH 1/16W 1M 1 R3103 ERJ3GEYJ103 M. RESISTOR CH 1/16W 1M 1 R3103 ERJ3GEYJ103 M. RESISTOR CH 1/16W 1M 1 R3104 ERJ3GEYJ103 M. RESISTOR CH 1/16W 1M 1 R3104 ERJ3GEYJ103 M. RESISTOR CH 1/16W 1M 1 R3104 ERJ3GEYJ103 M. RESISTOR CH 1/16W 2. 2K 1 R3105 ERJ3GEYJ103 M. RESISTOR CH 1/16W 2. 2K 1 R3106 ERJ3GEYJ103 M. RESISTOR CH 1/16W 47 1 R3106 ERJ3GEYJ104 M. RESISTOR CH 1/16W 47 1 R3106 ERJ3GEYJ104 M. RESISTOR CH 1/16W 47 1 R3106 ERJ3GEYJ104 M. RESISTOR CH 1/16W 47 1 R3107 ERJ3GEYJ104 M. RESISTOR CH 1/16W 47 1 R3107 ERJ3GEYJ104 M. RESISTOR CH 1/16W 47 1 R3107 ERJ3GEYJ104 M. RESISTOR CH 1/16W 47 1 R3107 ERJ3GEYJ104 M. RESISTOR CH 1/16W 47 1 R3107 ERJ3GEYJ104 M. RESISTOR CH 1/16W 47 1 R3106 ERJ3GEYJ104 M. RESISTOR CH 1/16W 47 1 R3107 ERJ3GEYJ104 M. RESISTOR CH 1/16W 47 1 R3106 ERJ3GEYJ104 M. RESISTOR CH 1/16W 47 1 R3106 ERJ3GEYJ104 M. RESISTOR CH 1/16W 47 1 R3106 ERJ3GEYJ104 M. RESISTOR CH 1/16W 47 1 R3106 ERJ3GEYJ105 M. RESISTOR CH 1/16W 0 1 R3110 ERJ3GEYJ105 M. RESISTOR CH 1/16W 0 2 R3111 ERJ3GEYJ105 M. RESISTOR CH 1/16W 1 1 M 1 R3111 ERJ3GEYJ105 M. RESISTOR CH 1/16W 1 1 M 1 R3111 ERJ3GEYJ105 M. RESISTOR CH 1/16W 1 1 M 1 R3111 ERJ3GEYJ105 M. RESISTOR CH 1/16W 1 1 M 1 R3111 ERJ3GEYJ105 M. RESISTOR CH 1/16W 1 1 M 1 R3111 ERJ3GEYJ105 M. RESISTOR CH 1/16W 22K 1 R3114 ERJ3GEYJ105 M. RESISTOR CH 1/16W 3 90 1 R3114 ERJ3GEYJ203 M. RESISTOR CH 1/16W 22K 1 R3114 ERJ3GEYJ203 M. RESISTOR CH 1/16W 56K 1 R3114 ERJ3GEYJ203 M. RESISTOR CH 1/16W 56K 1 M 1 M 1 M 1 M 1 M 1 M 1 M 1 M 1 M 1		ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1		R3009	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	1
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R70 VRT0145		-		-		R3111	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3. 9K		1
R71, 72 ERJ3GEYG152 M. RESISTOR CH 1/16W 1.5K 2 R3114 ERJ3GEYJ223 M. RESISTOR CH 1/16W 22K 1									T	1
R73 ERJ3GEYJ391 M. RESISTOR CH 1/16W 390 1 R126 ERJ3GEYOROO M. RESISTOR CH 1/16W 0 1 R140 ERJ3GEYOROO M. RESISTOR CH 1/16W 0 1 R144 ERJ3GEYOROO M. RESISTOR CH 1/16W 0 1 R145 ERJ3GEYOROO M. RESISTOR CH 1/16W 0 1 R15 ERJ3GEYJ563 M. RESISTOR CH 1/16W 2. 2K 1 R3116 ERJ3GEYJ566 M. RESISTOR CH 1/16W 5. 6 1 R3117 ERJ6GEYJ576 M. RESISTOR CH 1/16W 3. 9K 1 R3118 ERJ3GEYJ392 M. RESISTOR CH 1/16W 3. 9K 1									1	1
R73				-					1	1
R140 ERJ3GEYOROO M. RESISTOR CH 1/16W 0 1 R3117 ERJ6GEYJ5R6 M. RESISTOR CH 1/16W 5.6 1 R144 ERJ3GEYOROO M. RESISTOR CH 1/16W 0 1 R3118 ERJ3GEYJ392 M. RESISTOR CH 1/16W 3. 9K 1	R73			-11			+		+	
R140 ERJSGEFOROD III. RESISTOR CH 1/16W 0 1 R3118 ERJSGEYJ392 M. RESISTOR CH 1/16W 3. 9K 1	R126	ERJ3GEYOROO		+				· · · · · · · · · · · · · · · · · · ·	+	
R144 ERJ3GEYOROO M. RESISTOR CH 1/16W 0 1 R3118 ERJ3GEYJ392 M. RESISTOR CH 1/16W 3. 9K 1	R140	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	11					1	
P2110 FB.130FV.1122 M RESISTOR CH 1/16W 1.2K 1		ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	11		R3118	ERJ3GEYJ392		\perp	<u> </u>
			M. RESISTOR CH 1/10W 0	1		R3119	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	1
		T		\top					1	
		1		1-1					T	
PRT-19								<u> </u>		

						1		1	
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks	Ref. No.	Part No.	Part Name & Description	Pc	s Remarks
R3120, 21	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	2		R3447	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	
R3122		M. RESISTOR CH 1/10W 27	1		R3448	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	1
			- ;		R3449, 50	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1 2	,
R3123		 	 ' -					H	
R3124	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1. 2K	1		R3500	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	+-	·
R3200-02	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3		R3501	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	Ľ	i l
R3203-06	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	4		R3503	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	1
	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	2		R3504	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	1
			2		R3505	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1	,†
R3212, 13	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	-					1	`
R3218	ERJ3GEYJ471	M. RESISTOR CH 1/16W 470	11		R3506	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	4	<u> </u>
R3219	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R3508, 09	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	²
R3220	ERJ3GEYJ471	M. RESISTOR CH 1/16W 470	1		R3510	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	[i	[]
		M. RESISTOR CH 1/16W 2.2K	1		R3511	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	1
R3221								+	,
R3222, 23	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2		R3512	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	1	
R3224	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680		<u>-</u>	R3513	ERJ3GEYG822	M. RESISTOR CH 1/16W 8.2K	1	1
R3225, 26	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2		R3514	ERJ3GEYJ224	M. RESISTOR CH 1/16W 220K	1	ı (
R3228	 	M. RESISTOR CH 1/16W 1K			R3515	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	\Box	1
<u></u>			1	<u></u>	R3516	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68	١.	1
R3229	ERJ3GEYJ470					 	 	1	
R3230	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1		R3517	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1	1
R3231	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1		R3518	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K		4
R3232-34	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3		R3519	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1	<u> </u>
R3237	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	11		R3520	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	\top	1
			2		R3521-23	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	3
R3238, 39	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K						+	}
R3240	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1		R3524	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	\vdash	
R3241	ERJ14YJ270H	M. RESISTOR CH 1/4W 27	1		R3526	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	4
R3242-44	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3		R3527, 28	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	2
R3245-48	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	4		R3529	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K		1
	 		2		R3530	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	1
R3249, 50	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1. 2K						-	<u>' </u>
R3251, 52	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2		R3531, 32	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	5
R3253	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1		R3533	ERJ6GEYG221	M. RESISTOR CH 1/10W 220		1
R3262, 63	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2		R3534	ERJ3GEYG822	M. RESISTOR CH 1/16W 8.2K	1	1
R3265	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1		R3535	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1	1
			1 1		R3536	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R3266	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	 -					╂-	
R3268	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1		R3537	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K		
R3269-71	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3		R3538	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K	1	1
R3274	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1		R3540	ERJ3GEYJ564	M. RESISTOR CH 1/16W 560K	1	1
	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	2		R3541	ERJ3GEYJ183	M. RESISTOR CH 1/16W 18K		1
R3275, 76					R3542	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R3277	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	14		<u></u>		 	+	
R3278	ERJ14YJ270H	M. RESISTOR CH 1/4W 27	1		R4001	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	Ľ	
R3280	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	[1]		R4002, 03	ERJ14YJ682	M. RESISTOR CH 1/4W 6.8K	<u></u>	2
R3287, 88	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	2		R4004	ERJ6GEYG392	M. RESISTOR CH 1/10W 3.9K		1
R3289, 90	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	2		R4006, 07	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	\top	2
		 	1		R4008, 09	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	١,	2
R3291	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K						+	~
R3292	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1		R4010	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	-	<u></u>
R3301	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1		R4011, 12	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	2
R3309, 10	ERJ3GEYG332	M. RESISTOR CH 1/16W 3. 3K	2		R4014, 15	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	1	2
R3318	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	11		R4017, 18	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0		2
	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R4019 20	ERJ3GEYJ334	M. RESISTOR CH 1/16W 330K	1	2
R3319		 	+					1	,
R3320		M. RESISTOR CH 1/16W 2.7K	1-4			 	 	+	
R3321, 22	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2		R4023-26	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	Ľ	+
R3323	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1		R4028-30	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	L	3
R3324, 25	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2		R4031	VRE0034E433	M. RESISTOR CH 1/10W 43K		1
R3326, 27	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	2		R4032	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100		1
			2		R4033, 34	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	2
R3328, 29		 	+ 4		<u> </u>			+-	
R3330	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	14		R4035	ERJ14YJ682	M. RESISTOR CH 1/4W 6.8K	+-	<u>.</u>
R3331	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	$\perp \downarrow$		R4036	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	\perp	4
R3332-34	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3		R4037	ERJ14YJ682	M. RESISTOR CH 1/4W 6.8K	L^{1}	1
R3335, 36	 	M. RESISTOR CH 1/16W 2.7K	2		R4038	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K		
		M. RESISTOR OH 1/16W 47	17		R4039	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K		
R3337	ERJ3GEYJ470							+ :	,
R3338	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	11		R4040, 41	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1-	<u> </u>
R3339	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R4042-44	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	13	4
R3340	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1		R4045-47	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	13	1
R3341	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	1		R4048, 49	ERJ3GEYG472	M. RESISTOR OH 1/16W 4.7K	2	2
	ERJ3GEYOROO	M. RESISTOR OH 1/16W 0	什		R4050	 	M. RESISTOR CH 1/10W 10	1	1]
R3343								1 2	<u> </u>
R3416	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	4		ļ		M. RESISTOR CH 1/4W 6.8K	-	
R3418	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0			R4103, 04	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1 2	
R3420	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	1		R4105	ERJ3GEYJ911	M. RESISTOR CH 1/16W 910	\Box	
R3423-25	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	3		R4106	ERJ3GEYJ473	M. RESISTOR OH 1/16W 47K	1	1
R3426, 27		M. RESISTOR CH 1/16W 2. 7K	1,		R4107		M. RESISTOR CH 1/16W 100K	1	
			+ = +						`
R3428, 29		M. RESISTOR CH 1/16W 47	2				M. RESISTOR CH 1/16W 15K	-	
R3431, 32	ERJ3GEYJ471	M. RESISTOR OH 1/16W 470	2		R4109	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	<u> </u>
R3438	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	7	R4110	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	<u> </u>
R3439	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1		R4111, 12	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	2	:
		 	3		R4113		M. RESISTOR CH 1/16W 3. 9K	1	1
R3441-43		 						一	,
R3444	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1				M. RESISTOR CH 1/16W 470	 '	
R3445, 46	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2		R4115, 16	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	·
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			خليب	DDT_20				_	

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Ref. No.	Part No.	Part Name & DescriptionP	s Remarks	Ref. No.	Part No.	Part Name & Description	Pc	Remarks
	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	2	R6020	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	-1	
	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	R6021	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R4123	ERJ3GEYJ151	M. RESISTOR CH 1/16W 150	1	R6022	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	1	
	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	R6023	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
		M. RESISTOR CH 1/16W 47	1	R6024	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	١.	
R4125	ERJ3GEYJ470					M. RESISTOR CH 1/16W 47K	1	
R4126	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	R6025	ERJ3GEYJ473		1	
R4127	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	<u> </u>	R6026	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	H	
R4128	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	R6027	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R4129	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	R6029, 30	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	2	
R4130	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	R6031-37	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	7	1
R4131	ERJ3GEYG822	M. RESISTOR CH 1/16W 8.2K	1	R6038	ERJ3GEYORO0	M. RESISTOR CH 1/16W . 0	1	
R4132	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K	1	R6039	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R4133	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1.	R6040	ERJ3GEYORO0	M. RESISTOR CH 1/16W 0	1	
R4134	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	R6041, 42	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R4135	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	R6043	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R4136	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	R6044-52	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	9	
R4137	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	R6053-64	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	12	
R4138	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	R6065	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R4139	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1.	R6067	ERJ3GEYJ102	M. RESISTOR CH 1/16W . 1K	1	
		M. RESISTOR CH 1/16W 1.2K	1	R6068-71	ERJ3GEYJ121	M. RESISTOR CH 1/16W 120	4	
R4140	ERJ3GEYJ122	 	2	R6072, 73	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R4141, 42	ERJ3GEYJ103		1	R6074-76	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	3	
R4143	ERJ3GEYJ473	M. RESISTOR CH 1/16W. 47K	1				4	
R4144	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	R6077-80	ERJ3GEYJ222	<u> </u>	 	<u> </u>
R4145	ERJ3GEYJ155	M. RESISTOR CH 1/16W 1.5M	1	R6081-85	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	5	
R4146	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	R6087, 88	ERJ3GEYORO0	M. RESISTOR CH 1/16W 0	2	
R4201, 02	ERJ14YJ682	M. RESISTOR CH 1/4W 6.8K	2	R6089-92	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	4	
R4203, 04	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	2	R6093-95	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	3	<u> </u>
R4205	ERJ3GEYJ911	M. RESISTOR CH 1/16W 910	1	R6096-98	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2, 2K	3	
R4206	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	R6099	ERJ3GEYJ473	N. RESISTOR CH 1/16W 47K	1	
R4207	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1					
R4208	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1,	SW4101	VSS0367-06B	SWITCH	1	
R4209	ERJ3GEYJ223		1	SW4102	VSS0367-04B	SWITCH	1	
R4210	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1.	SW4201	VSS0367-06B	SWITCH	1	
R4211, 12	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	2	SW6001	V\$\$0342	SWITCH	1	
	ERJ3GEYJ471	M. RESISTOR CH 1/16W 470	1		1,111			
R4213	<u> </u>	M. RESISTOR CH 1/16W 3.9K	1	TG6	EYF6CU	TEST POINT	1	
R4214	ERJ3GEYJ392		2	TG3001	EYF6CU	TEST POINT	1	
R4215, 16	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	-1 			1	
R4217, 18	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	2	TG3300	EYF6CU	TEST POINT		
R4219-22	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	TG3500	EYF6CU	TEST POINT	1	
R4223	ERJ3GEYJ151	M. RESISTOR CH 1/16W 150	1	TG4001	EYF6CU	TEST POINT	1	
R4224	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1		ļ		<u> </u>	
R4225	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	TH3500	VRT0139K103	THERMISTOR	1	
R4226	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	<u> </u>			4_	
R4227	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	TP1, P2	EYF6CU	TEST POINT	2	
R4228	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	TP7-12	EYF6CU	TEST POINT	6	
R4229	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	TP501, 02	EYF6CU	TEST POINT	2	
R4230	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	TP3100, 01	EYF6CU	TEST POINT	2	
R4231	ERJ3GEYG822	M. RESISTOR CH 1/16W 8, 2K	1.	TP3200-03	EYF6CU	TEST POINT	4	
R4232	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2,7K	1	TP3300	EYF6CU	TEST POINT	1	
R4233	ERJ3GEYG472		1	TP3500-08		TEST POINT	9	
	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	TP4001	EYF6CU	TEST POINT	1	
R4234	 	M. RESISTOR CH 1/16W 1.5K	1	TP4004	EYF6CU	TEST POINT	1	
R4235	ERJ3GEYG152		1	TP6001-04		TEST POINT	4	
R4236	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	<u></u>	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-11 300	1.201 1.0101	H	
R4237	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	1	VOVOCAO	TOLUMED	-	
R4238	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	VC6001	VCV0049	TRIMMER	1	ļ
R4239	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	1		U DECLOTOR	-	ļ
R4240	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	VR9	EVM7JGAOOB14		1	
R4241, 42	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	VR3200	EVM7JGA00B13		1	ļ
R4243	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	VR4003	EVM7JGAO0B14		1	
R4244	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	VR4101	EVM7JGAO0814	V. RESISTOR 10K	1	
R4245	ERJ3GEYJ155	M. RESISTOR CH 1/16W 1.5M	1	VR4201	EVM7JGA00814	V. RESISTOR 10K	1	
R4246	ERJ3GEYJ103	M. RESISTOR CH 1/16W - 10K	1				L	
R6001	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	X1	VSX0645	CRYSTAL OSCILLATOR	1	
R6002~04	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	3	X2	VSX0886	CRYSTAL OSCILLATOR	1	
R6005	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	1	X501	VSX0637	CRYSTAL OSCILLATOR	1	
	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	5	X6002	VSX0883	CRYSTAL OSCILLATOR	1	
R6006-10			1	1	† · · · · · · · · · · · · · · · · · · ·		<u> </u>	
R6011	ERJ3GEYJ153		1	11	 	 	-	
R6012	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	1	VEDOCOEC:	TEST DI IIG	-	(DT1)
R6013	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	■ E10	VEP86258A	TEST PLUG	\perp	(RTL)
R6014	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	1	<u> </u>	<u> </u>	<u> </u>	
R6015	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1]			_	
R6016	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	C6601	ECAOJM102	E. CAPACITOR 6.3V 1000U	1	
R6017.	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1				L	
R6018	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	D6601	MA142WK	DIODE	1	
R6019	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	1	1			_	
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Month Description Process Pr	/EP00Y55	5A VEP2	2251A								AJ-D200HE
Profest Company Comp			 	Dag	Pomarke	Ref No	Part No.	Part Name & Description	Pc		Remarks
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MINISTER CONCESTOR (FEMALE) 1 1 1 1 1 1 1 1 1						C550-58	ECUX1H103ZFV	C. CAPACITOR CH 50V 0. 01U	L	9	
B 12 PR PR PR PR PR PR PR P						C559	ECSTOJX476Z	T. CAPACITOR CH6. 3V 47U	L	1	
	P3	VJS3961	CONNECTOR (FEMALE)	- 1		C560	ECSTOJY475Z	T. CAPACITOR CH6. 3V 4. 7U	L	1	
						C561	ECUX1C104ZFV	C. CAPACITOR CH 16V 0. 1U	L	1	
COUNTY C		 		_		C562	ECUX1H06OCCV	C. CAPACITOR CH 50V 6P	Γ	1	
COMPANDED COMP	■ F12	VEP22251A	SENSOR P. C. BOARD	1	(RTL)	C563	ECUX1H100CCV	C. CAPACITOR CH 50V 10P	T	1	
COURT COUNTY CO				_		C564	ECUX1H12OJCV	C. CAPACITOR CH 50V 12P	Г	1	
Common C		 				C565	EGUX1H060CCV	C. CAPACITOR CH 50V 6P	1	1	
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Coling		ECSTOJX476Z	T. CAPACITOR CH6. 3V 47U	1		D106	MA728	DIODE	Γ.	1	
C110 CAUMA NORMAN C. CAPACITOR ON 100 Y 10		ECUX1A105ZFV	C. CAPACITOR CH 10V 1U	1		D107	188355	DIODÉ	Г	1	
C1250			C. CAPACITOR CH 10V 1U	1		D109	188355	DIODE	Τ	1	
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C140 ECMINICIZEAREN C. CAPACITOR CH 16V 0.22U 1 1.5504 UPC2391GB 1C 1 1 1.5504 UPC2391GB 1C 1 1 1.5504 UPC2391GB 1C 1 1 1.5506 UPC2391GB 1C 1 1 1.5506 UPC2391GB 1C 1 1 1 1.5506 UPC2391GB 1C 1 1 1 1.5506 UPC2391GB 1C 1 1 1 1 1.5506 UPC2391GB 1C 1 1 1 1 1 1 1 1	C138	ECUX1H100CCV	C. CAPACITOR CH 50V 10P	1		10112	TC7SH04FU	10	L	1	
C142 ECUNICIOGEZEN C. CAPACITOR CH 18V 1U 1 1 1 1 1 1 1 1	C139	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	1		10113	AN2018S	10	L	1	·
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C147 ECUXICICAZEV G. CAPACITOR CH 16V 0. 1U 1 C148 ECSTOJD157Z E. CAPACITOR CH6.3V 15OU 1 C150 ECSTOJD157Z E. CAPACITOR CH6.3V 15OU 1 C151 ECUXICICAZEV G. CAPACITOR CH 16V 0. 1U 1 C151 ECUXICICAZEV G. CAPACITOR CH 16V 0. 1U 1 C151 ECUXICICAZEV G. CAPACITOR CH 16V 0. 1U 1 C151 ECUXICICAZEV G. CAPACITOR CH 16V 0. 1U 1 C152 ECUXIHIZOJOV G. CAPACITOR CH 16V 0. 1U 1 C153 ECSTIOY685Z T. CAPACITOR CH 16V 0. 1U 1 C154 ECUXICICAZEV G. CAPACITOR CH 16V 0. 1U 1 C155 ECUXICICAZEV G. CAPACITOR CH 16V 0. 1U 1 C155 ECUXICICAZEV G. CAPACITOR CH 16V 0. 1U 1 C155 ECUXICICAZEV G. CAPACITOR CH 16V 0. 1U 1 C156 ECUXICICAZEV G. CAPACITOR CH 16V 0. 1U 1 C158 ECUXICICAZEV G. CAPACITOR CH 16V 0. 1U 1 C159 ECUXICICAZEV G. CAPACITOR CH 16V 0. 1U 1 C159 ECUXICICAZEV G. CAPACITOR CH 16V 0. 1U 1 C159 ECUXICICAZEV G. CAPACITOR CH 16V 0. 1U 1 C160 ECUXICICAZEV G. CAPACITOR CH 16V 0. 1U 1 C161 ECUXICICAZEV G. CAPACITOR CH 16V 0. 1U 1 C162 ECUXICICAZEV G. CAPACITOR CH 16V 0. 1U 1 C163 ECUXICICAZEV G. CAPACITOR CH 16V 0. 1U 1 C164 ECUXICICAZEV G. CAPACITOR CH 16V 0. 1U 1 C165 ECUXICICAZEV G. CAPACITOR CH 16V 0. 1U 1 L114 VL00319K330 COIL 1 C165 ECUXICICAZEV G. CAPACITOR CH 16V 0. 1U 1 L507 VL00319M6R8 COIL 6. 8UH 1 C508 ECUXICICAZEV G. CAPACITOR CH 16V 0. 1U 1 L508 ECUXICICAZEV G. CAPACITOR CH 16V 0. 1U 1 L508 ECUXICICAZEV G. CAPACITOR CH 16V 0. 1U 1 L508 ECUXICICAZEV G. CAPACITOR CH 16V 0. 1U 1 L509 ECUXICICAZEV G. CAPACITOR CH 16V 0. 1U 1 L509 ECUXICICAZEV G. CAPACITOR CH 16V 0. 1U 1 L509 ECUXICICAZEV G. CAPACITOR CH 16V 0. 1U 1 L509 ECUXICICAZEV G. CAPACITOR CH 16V 0. 1U 1 L509 ECUXICICAZEV G. CAPACITOR CH 16V 0. 1U 1 L509 ECUXICICAZEV G. CAPACITOR CH 16V 0. 1U 1 L509 ECUXICICAZEV G. CAPACITOR CH 16V 0. 1U 1 L509 ECUXICICAZEV G. CAPACITOR CH 16V 0. 1U 1 L509 ECUXICICAZEV G. CAPACITOR CH 16V 0. 1U 1 L509 ECUXICICAZE G. CAPACITOR CH 16V 0. 1U 1 L509 ECUXICICAZEV G. CAPACITOR CH 16V 0. 1U 1 L509 ECUXICICAZE G. CAPACITOR CH 16V 0. 1U 1 L510 ECUXICICAZE G. CAPACITOR CH 16V 0. 1U 1 L511 ELPCECAZE G. CAPACITOR CH 16V 0. 1U 1 L512 ELPCECAZE G. CAPACI				<u> </u>	 				1	1	
C148 ECSTOJ157Z E. CAPACITOR CH6.3V 150U 1									T	ᅦ	
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C153				├-	 				+-		
C154 ECUNICIOSZEN G. CAPACITOR CH 16V 1U 1 C155 ECUXICIO4ZEV G. CAPACITOR CH 16V 0.1U 1 C158 ECUXICIO4ZEV G. CAPACITOR CH 16V 0.1U 1 C159 ECUXIH27OJCV G. CAPACITOR CH 16V 0.1U 1 C161 ECUXICIO4ZEV G. CAPACITOR CH 16V 0.1U 1 C162 ECUXIH101JCV G. CAPACITOR CH 16V 0.1U 1 C163 ECUXIH101JCV G. CAPACITOR CH 50V 100P 1 C164 ECUXIH101JCV G. CAPACITOR CH 50V 0.02U 1 C165 ECUXIH223ZEV G. CAPACITOR CH 50V 0.02U 1 C500 ECSTOJX476Z T. CAPACITOR CH 50V 0.02U 1 C501 ECUNICIOSZEN G. CAPACITOR CH 6V 1U 1 C504 ECSTIAY106Z T. CAPACITOR CH 10V 10U 1 C505 ECSTOGY226Z T. CAPACITOR CH 50V 10P 3 C516-20 ECUXIH100CCV G. CAPACITOR CH 50V 10P 3 C516-20 ECUXIH390JCV G. CAPACITOR CH 50V 10P 3 C616 ECUXIH390JCV G. CAPACITOR CH 50V 10P 3 C616 ECUXIH390JCV G. CAPACITOR CH 50V 10P 3 C617 ECUXIH390JCV G. CAPACITOR CH 50V 10P 3 C618-20 ECUXIH390JCV G. CAPACITOR CH 16V 0.1U 5 C619 ECUXIH390JCV G. CAPACITOR CH 16V 0.1U 5 C610 ECUXIH390JCV G. CAPACITOR CH 16V 0.1U 5 C610 ECUXIH390JCV G. CAPACITOR CH 16V 0.1U 5 C610 ECUXIH390JCV G. CAPACITOR CH 16V 0.1U 5 C610 ECUXIH390JCV G. CAPACITOR CH 16V 0.1U 5 C610 ECUXIH390JCV G. CAPACITOR CH 16V 0.1U 5 C610 ECUXIH390JCV G. CAPACITOR CH 16V 0.1U 5 C610 ECUXIH390JCV G. CAPACITOR CH 16V 0.1U 5 C610 ECUXIH390JCV G. CAPACITOR CH 16V 0.1U 5	 			-1					-	-4	
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C159 ECUX1H27OJCV C. CAPACITOR CH 50V 27P 1 C161 ECUX1C10AZFV C. CAPACITOR CH 50V 0.1U 1 C162 ECUX1H101JCV C. CAPACITOR CH 50V 100P 1 C163 ECUX1H233ZFV C. CAPACITOR CH 50V 0.02U 1 C500 ECSTOJX476Z T. CAPACITOR CH 6.3 V 47U 1 C501 ECUMIC105ZFN C. CAPACITOR CH 16V 1U 1 C504 ECSTIAY106Z T. CAPACITOR CH 10V 10U 1 C506 ECSTOGY226Z T. CAPACITOR CH 10V 10U 1 C510-12 ECUX1H100CCV C. CAPACITOR CH 50V 10P 3 C510-12 ECUX1H100CCV C. CAPACITOR CH 50V 10P 3 C510-12 ECUX1H390JCV C. CAPACITOR CH 50V 39P 3 C516-20 ECUX1C104ZFV C. CAPACITOR CH 50V 0.1U 5 C114 VLQ0319M6R8 C01L 15UH 1 L507 VLQ0319M6R8 C01L 6.8UH 1 L508-10 ELJFC22CUB C01L 22UH 3 L512 ELJFC15CKF C01L 15UH 1 L513 VLQ0319M6R8 C01L 8.8UH 1 PP101 VJP2962A026 CONNECTOR (MALE) 1 PP501 VJP2981B044 CONNECTOR (MALE) 1 C516-20 ECUX1C104ZFV C. CAPACITOR CH 16V 0.1U 5 C102 2SC3930 TRANSISTOR 1	C155	ECUX1C104ZFV		1					╌	-1	
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C162 ECUXIHIO1.CV C. CAPACITOR CH 50V 100P 1	C159	ECUX1H270JCV	C. CAPACITOR CH 50V 27P	1		L114	VLQ0319K330	COIL	L	1	
C162 ECUX1H101JCV C. CAPACITOR CH 50V 100P 1	C161	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	1		L501	ELJPC150KF	COIL 15UH	L	1	
C163 ECUX1H223ZFV C. CAPACITOR CH 50V 0.022U 1		ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1		L507	VLQ0319M6R8	CO1L 6. 8UH		ı	
C500 ECSTOJX476Z T. CAPACITOR CHG. 3V 47U 1 L512 ELJPC150KF C01L 15UH 1 L513 VL00319M6R8 C01L 8. 8UH 1 L513 VL00319M6R8 C01L	 _			1	· · · · · ·	L508-10	ELJFC220JB	COIL 22UH	[]	3	
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Ref. No. Part No. Part Name & Description Pos Remarks 1					
10104 XP-4601	Ref. No.	Part No.	Part Name & Description	Pes	s Remarks
DIOS, 06 2803930	R532	ERJ3GEYG103	M. RESISTOR CH 1/16W 10K	1	
10107 RP4654 TRANSISTOR 1 1	R533, 34	ERJ3GEYG513	M. RESISTOR CH 1/16W 51K	2	
CREAT CREA	R535	ERJ3GEYG103	M. RESISTOR CH 1/16W 10K	1	
COD-1	R536	ERJ2GEJ102	M. RESISTOR CH 2W 1K	1	
CREATED CREA	R537, 38	ERJ2GEJ152	M. RESISTOR CH 2W 1.5K	2	
R101	R539	ERJ2RHD203	M. RESISTOR CH 2W 20K	1	
R101 ERJ2GEJ105 M. RESISTOR CH 2W 1 M 1 R102 ERJ2GEJ222 M. RESISTOR CH 2W 1.4 L R103, C4 ERJ2GEJ105 M. RESISTOR CH 2W 1.6 L R103, C4 ERJ2GEJ105 M. RESISTOR CH 2W 1.6 L R106 ERJ2GEJ105 M. RESISTOR CH 2W 100 L R106 ERJ2GEJ104 M. RESISTOR CH 2W 100 L R107 ERJ2GEJ104 M. RESISTOR CH 2W 100 L R108, C6 ERJ2GEJ104 M. RESISTOR CH 2W 100 L R110 ERJ2GEJ104 M. RESISTOR CH 2W 100 L R111 ERJ2GEJ23 M. RESISTOR CH 2W 100 L R111 ERJ2GEJ3 M. RESISTOR CH 2W 100 L R112 ERJ2GEJ3 M. RESISTOR CH 2W 100 L R112 ERJ2GEJ105 M. RESISTOR CH 2W 33 J R119 ERJ2GEJ3 M. RESISTOR CH 2W 33 J R119 ERJ2GEJ3 M. RESISTOR CH 2W 100 L R112 ERJ2GEJ3 M. RESISTOR CH 2W 100 L R112 ERJ2GEJ3 M. RESISTOR CH 2W 100 L R112 ERJ2GEJ3 M. RESISTOR CH 2W 3 J R112 ERJ2GEJ3 M. RESISTOR CH 2W 100 L R112 ERJ2GEJ3 M. RESISTOR CH 2W 100 L R112 ERJ2GEJ10 M. RESISTOR CH 2W 3 J R112 ERJ2GEJ3 M. RESISTOR CH 2W 1 L R112 ERJ2GEJ3 M. RESISTOR CH 2W 1 L R112 ERJ2GEJ3 M. RESISTOR CH 2W 1 L R112 ERJ2GEJ3 M. RESISTOR CH 2W 1 L R112 ERJ2GEJ3 M. RESISTOR CH 2W 1 L R112 ERJ2GEJ3 M. RESISTOR CH 2W 1 L R112 ERJ2GEJ3 M. RESISTOR CH 2W 1 L R112 ERJ2GEJ3 M. RESISTOR CH 2W 1 L R112 ERJ2GEJ3 M. RESISTOR CH 2W 1 L R112 ERJ2GEJ3 M. RESISTOR CH 2W 1 L R113 ERJ2GEJ3 M. RESISTOR CH 2W 1 L R114 ERJ2GEJ3 M. RESISTOR CH 2W 1 L R115 ERJ2GEJ3 M. RESISTOR CH 2W 1 L R116 ERJ2GEJ3 M. RESISTOR CH 2W 1 L R117 ERJ2GEJ3 M. RESISTOR CH 2W 1 L R118 ERJ2GEJ3 M. RESISTOR CH 2W 1 L R119 ERJ2GEJ3 M. RESISTOR CH 2W 1 L R119 ERJ2GEJ3 M. RESISTOR CH 2W 1 L R119 ERJ2GEJ3 M. RESISTOR CH 2W 1 L R111 ERJ2GEJ3 M. RESISTOR CH 2W 1 L R111 ERJ2GEJ3 M. RESISTOR CH 2W 1 L R111 ERJ2GEJ3 M. RESISTOR CH 2W 1 L R111 ERJ2GEJ3 M. RESISTOR CH 2W 1 L R111 ERJ2GEJ3 M. RESISTOR CH 2W 1 L R111 ERJ2GEJ3 M. RESISTOR CH 2W 1 L R111 ERJ2GEJ3 M. RESISTOR CH 2W 1 L R111 ERJ2GEJ3 M. R	R540, 41	ERJ2RHD104	M. RESISTOR CH 2W 100K	2	
R102	R542	ERJ2RHD683	M. RESISTOR CH 2W 68K	1	
R102	R549	ERJ2GEJ100	M. RESISTOR CH 2W 10	1	\$
R103,04	R550	ERJ2GEJ222	M. RESISTOR CH 2W 2. 2K	1	1
R105	R551	ERJ2GEJ104	M. RESISTOR CH 2W 100K	1	
R106	R552, 53	ERJ2GEJ560	M. RESISTOR CH 2W 56	2	
R107	R554	ERJ2GEJ104	M. RESISTOR CH 2W 100K	1	
R110B, 09	R555	ERJ2GEJ103	M. RESISTOR CH 2W 10K	1	
R110	R556	ERJ2GEJ102	M. RESISTOR CH 2W 1K	1	
R111	R557	ERJ2GEJ392	M. RESISTOR CH 2W 3. 9K	1	
R112	R558	ERJ2GEJ103	M. RESISTOR CH 2W 10K	1	
R113	R559	ERJ2GEJ392	M. RESISTOR CH 2W 3.9K	1	
R114, 15	R560-62	ERJ2GEJ103	M. RESISTOR CH 2W 10K	, 3	3
R116	R563-65	ERJ2GEJ153	M. RESISTOR CH 2W 15K	3	3
R117, 18	R566	ERJ2GEJ392	M. RESISTOR CH 2W 3. 9K	1	1
R119	R567	ERJ2GEJ153	M. RESISTOR CH 2W 15K	1	
R120	R568	ERJ2GEJ103	M. RESISTOR CH 2W 10K	1	
R121	R569	ERJ2GEJ153	M. RESISTOR CH 2W 15K	1	
R122 ERJ2GEJ102 M. RESISTOR CH 2W 1K 1	R570	ERJ2GEJ103	M. RESISTOR CH 2W 10K	Ti	
R123	R571	ERJ2GEJ153	M. RESISTOR CH 2W 15K	1	il
R124	R572	ERJ2GEJ103	M. RESISTOR CH 2W 10K	†	
R125 ERJ2GEJ102 M. RESISTOR CH 2W 1K 1 R126 ERJ2GEJ391 M. RESISTOR CH 2W 390 1 R127 ERJ2GEJ304 M. RESISTOR CH 2W 100K 1 R128 ERJ2GEJ333 M. RESISTOR CH 2W 3, 3K 1 R130 ERJ2GEJ333 M. RESISTOR CH 2W 3, 3K 1 R130 ERJ2GEJ333 M. RESISTOR CH 2W 3, 3K 1 R131 ERJ2GEJ333 M. RESISTOR CH 2W 3, 3K 1 R132 ERJ2GEJ333 M. RESISTOR CH 2W 3, 3K 1 R132 ERJ2GEJ332 M. RESISTOR CH 2W 3, 3K 1 R133 ERJ2GEJ35 M. RESISTOR CH 2W 3, 3K 1 R134 ERJ2GEJ35 M. RESISTOR CH 2W 3, 3K 1 R135 ERJ2GEJ32 M. RESISTOR CH 2W 2, 7K 1 R136 ERJ2GEJ32 M. RESISTOR CH 2W 2, 7K 1 R137 ERJ2GEJ24 M. RESISTOR CH 2W 2, 7K 1 R138 ERJ2GEJ24 M. RESISTOR CH 2W 2, 7K 1 R139 ERJ2GEJ32 M. RESISTOR CH 2W 100K 2 R140 ERJ2GEJ32 M. RESISTOR CH 2W 100K 2 R140 ERJ2GEJ104 M. RESISTOR CH 2W 100K 1 R141 ERJ2GEJ104 M. RESISTOR CH 2W 100K 1 R142 ERJ2GEJ104 M. RESISTOR CH 2W 100K 1 R144 ERJ2GEJ105 M. RESISTOR CH 2W 100K 1 R145 ERJ2GEJ332 M. RESISTOR CH 2W 100K 1 R146 ERJ2GEJ105 M. RESISTOR CH 2W 100K 1 R146 ERJ2GEJ105 M. RESISTOR CH 2W 100K 1 R147 ERJ2GEJ101 M. RESISTOR CH 2W 10K 1 R146 ERJ2GEJ332 M. RESISTOR CH 2W 3, 3K 1 R154 ERJ2GEJ331 M. RESISTOR CH 2W 330 6 R567 ERJ2GEJ331 M. RESISTOR CH 2W 330 6 R567 ERJ2GEJ331 M. RESISTOR CH 2W 3, 3K 1 R561 ERJ2GEJ32 M. RESISTOR CH 2W 2, 7K 1 R511 ERJ2GEJ32 M. RESISTOR CH 2W 2, 7K 1 R512 ERJ2GEJ32 M. RESISTOR CH 2W 2, 7K 1 R513 ERJ2GEJ32 M. RESISTOR CH 2W 2, 7K 1 R514 ERJ2GEJ331 M. RESISTOR CH 2W 2, 7K 1 R515 ERJ2GEJ332 M. RESISTOR CH 2W 2, 7K 1 R516 ERJ2GEJ32 M. RESISTOR CH 2W 2, 7K 1 R517 ERJ2GEJ32 M. RESISTOR CH 2W 2, 7K 1 R518 ERJ2GEJ32 M. RESISTOR CH 2W 2, 7K 1 R519 ERJ2GEJ32 M. RESISTOR CH 2W 2, 7K 1 R511 ERJ2GEJ32 M. RESISTOR CH 2W 2, 7K 1 R512 ERJ2GEJ331 M. RESISTOR CH 2W 2, 7K 1 R513 ERJ2GEJ342 M. RESISTOR CH 2W 2, 7K 1 R514 ERJ2GEJ342 M. RESISTOR CH 2W 2, 7K 1 R515 ERJ2GEJ342 M. RESISTOR CH 2W 2, 7K 1 R516 ERJ2GEJ342 M. RESISTOR CH 2W 3, 3K 1 R517 ERJ2GEJ343 M. RESISTOR CH 2W 3, 3K 1 R518 ERJ2GEJ343 M. RESISTOR CH 2W 10K 1 R526 ERJ2GEJ364 M. RESISTOR CH 2W 10K 1 R527 ERJ2GEJ363 M. RESISTOR CH 2W 10K 1 R526 ERJ2GEJ363 M. RESISTOR CH 2	R573-75	ERJ2GEJ392	M. RESISTOR CH 2W 3.9K	1 3	3
R126	R576	ERJ2GEJ822	M. RESISTOR CH 2W 8.2K	1	
R127	R577	ERJ2GEJ103	M. RESISTOR CH 2W 10K	1	
R128 ERJ2GEJ473 M. RESISTOR CH 2W 47K 1 R129 ERJ2GEJ332 M. RESISTOR CH 2W 3.3K 1 R130 ERJ2GEJ183 M. RESISTOR CH 2W 18K 1 R131 ERJ2GEOROO M. RESISTOR CH 2W 33K 1 R131 ERJ2GEJ333 M. RESISTOR CH 2W 33K 1 R132 ERJ2GEJ333 M. RESISTOR CH 2W 3.3K 1 R133 ERJ2GEJ152 M. RESISTOR CH 2W 3.3K 1 R134 ERJ2GEJ332 M. RESISTOR CH 2W 3.3K 1 R135 ERJ2GEJ224 M. RESISTOR CH 2W 2.7K 1 R136 ERJ2GEJ227 M. RESISTOR CH 2W 2.7K 1 R137 ERJ2GEJ227 M. RESISTOR CH 2W 4.7K 1 R138 S9 ERJ2GEJ104 M. RESISTOR CH 2W 100K 2 R140 ERJ2GEJ104 M. RESISTOR CH 2W 100K 2 R140 ERJ2GEJ104 M. RESISTOR CH 2W 100K 1 R141 ERJ2GEJ105 M. RESISTOR CH 2W 100K 1 R142 ERJ2GEJ105 M. RESISTOR CH 2W 100K 1 R144 ERJ2GEJ105 M. RESISTOR CH 2W 100K 1 R145 ERJ2GEJ32 M. RESISTOR CH 2W 100K 1 R146 ERJ2GEJ102 M. RESISTOR CH 2W 100K 1 R147 ERJ2GEJ101 M. RESISTOR CH 2W 10 M 1 R148-S3 ERJ2GEJ33 M. RESISTOR CH 2W 10 M 1 R148-S3 ERJ2GEJ33 M. RESISTOR CH 2W 10 M 1 R148-S3 ERJ2GEJ33 M. RESISTOR CH 2W 10 M 1 R149-S3 ERJ2GEJ33 M. RESISTOR CH 2W 330 6 R507 ERJ2GEJ33 M. RESISTOR CH 2W 330 6 R507 ERJ2GEJ33 M. RESISTOR CH 2W 3.3 K 1 R501-06 ERJ2GEJ33 M. RESISTOR CH 2W 3.3 K 1 R501 ERJ2GEJ272 M. RESISTOR CH 2W 2.7K 1 R511 ERJ2GEJ104 M. RESISTOR CH 2W 2.7K 1 R511 ERJ2GEJ105 M. RESISTOR CH 2W 2.7K 1 R511 ERJ2GEJ103 M. RESISTOR CH 2W 2.7K 1 R511 ERJ2GEJ103 M. RESISTOR CH 2W 2.7K 1 R511 ERJ2GEJ103 M. RESISTOR CH 2W 2.7K 1 R512 ERJ2GEJ33 M. RESISTOR CH 2W 2.7K 1 R513 ERJ2GEJ32 M. RESISTOR CH 2W 2.7K 1 R514 ERJ2GEJ103 M. RESISTOR CH 2W 2.7K 1 R515 ERJ2GEJ303 M. RESISTOR CH 2W 33K 1 R516 ERJ2GEJ304 M. RESISTOR CH 2W 33K 1 R517 ERJ2REJ303 M. RESISTOR CH 2W 33K 1 R518 ERJ2GEJ103 M. RESISTOR CH 2W 10K 1 R519 ERJ2GEJ103 M. RESISTOR CH 2W 10K 1 R522 ERJ2GEJ103 M. RESISTOR CH 2W 150K 1 R523 ERJ2GEJ103 M. RESISTOR CH 2W 150K 1 R524 ERJ2GEJ103 M. RESISTOR CH 2W 150K 1 R526 ERJ2GEJ103 M. RESISTOR CH 2W 150K 1 R527 ERJ2GEJ681 M. RESISTOR CH 2W 150K 1 R526 ERJ2GEJ103 M. RESISTOR CH 2W 150K 1	R578	ERJ2GEJ154	M. RESISTOR CH 2W 150K	+	
R129	R579	ERJ2GEJ103	M. RESISTOR CH 2W 10K	+	
R130 ERJ2GEJ183 M. RESISTOR CH 2W 18K 1 R131 ERJ2GEOROO M. RESISTOR CH 2W 0 1 R132 ERJ2GEJ332 M. RESISTOR CH 2W 33K 1 R133 ERJ2GEJ152 M. RESISTOR CH 2W 33K 1 R133 ERJ2GEJ332 M. RESISTOR CH 2W 3.3 K 1 R134 ERJ2GEJ332 M. RESISTOR CH 2W 2.0 K 1 R135 ERJ2GEJ224 M. RESISTOR CH 2W 2.0 K 1 R136 ERJ2GEJ272 M. RESISTOR CH 2W 2.7 K 1 R137 ERJ2GEJ472 M. RESISTOR CH 2W 2.7 K 1 R138, 39 ERJ2GEJ104 M. RESISTOR CH 2W 1.0 K 1 R140 ERJ2GEJ104 M. RESISTOR CH 2W 100K 2 R140 ERJ2GEJ104 M. RESISTOR CH 2W 100K 1 R141 ERJ2GEJ104 M. RESISTOR CH 2W 100K 1 R142 ERJ2GEJ105 M. RESISTOR CH 2W 10K 1 R145 ERJ2GEJ332 M. RESISTOR CH 2W 10 L R146 ERJ2GEJ102 M. RESISTOR CH 2W 10 L R147 ERJ2GEJ101 M. RESISTOR CH 2W 10 L R148 ERJ2GEJ103 M. RESISTOR CH 2W 10 L R147 ERJ2GEJ101 M. RESISTOR CH 2W 10 L R148 ERJ2GEJ31 M. RESISTOR CH 2W 10 L R156 ERJ2GEJ31 M. RESISTOR CH 2W 33 8 B R154 ERJ2GEJ31 M. RESISTOR CH 2W 33 0 B R507 ERJ2GEJ31 M. RESISTOR CH 2W 33 0 B R507 ERJ2GEJ31 M. RESISTOR CH 2W 33 0 B R507 ERJ2GEJ392 M. RESISTOR CH 2W 33 0 B R509 ERJ2GEJ127 M. RESISTOR CH 2W 3.9 K 1 R509 ERJ2GEJ327 M. RESISTOR CH 2W 2.7 K 1 R510 ERJ2GEJ127 M. RESISTOR CH 2W 2.7 K 1 R511 ERJ2GEJ127 M. RESISTOR CH 2W 2.7 K 1 R512 ERJ2GEJ127 M. RESISTOR CH 2W 2.7 K 1 R513 ERJ2GEJ154 M. RESISTOR CH 2W 2.7 K 1 R514 ERJ2GEJ154 M. RESISTOR CH 2W 2.7 K 1 R515 ERJ2GEJ154 M. RESISTOR CH 2W 2.7 K 1 R516 ERJ2GEJ154 M. RESISTOR CH 2W 2.7 K 1 R517 ERJ2RH333 M. RESISTOR CH 2W 2.7 K 1 R518 ERJ2GEJ154 M. RESISTOR CH 2W 2.7 K 1 R519 ERJ2GEJ154 M. RESISTOR CH 2W 1.5 K 1 R519 ERJ2GEJ154 M. RESISTOR CH 2W 1.5 K 1 R519 ERJ2GEJ154 M. RESISTOR CH 2W 1.5 K 1 R519 ERJ2GEJ154 M. RESISTOR CH 2W 1.5 K 1 R519 ERJ2GEJ154 M. RESISTOR CH 2W 1.5 K 1 R520 ERJ2GEJ154 M. RESISTOR CH 2W 1.5 K 1 R521 ERJ2GEJ154 M. RESISTOR CH 2W 1.5 K 1 R522 ERJ2GEJ103 M. RESISTOR CH 2W 1.5 K 1 R523 ERJ2GEJ103 M. RESISTOR CH 2W 1.5 K 1 R524 ERJ2GEJ103 M. RESISTOR CH 2W 1.5 K 1 R525 ERJ3GEYG13 M. RESISTOR CH 2W 1.5 K 1 R526 ERJ2GEJ103 M. RESISTOR CH 2W 1.5 K 1 R526 ERJ2GEJ103 M. RESISTOR CH 2W 1.5 K 1	R580	ERJ2GEJ154	M. RESISTOR CH 2W 150K	1	
R131 ERJ2GEOROO M. RESISTOR CH 2W 0 1 R132 ERJ2GEJ333 M. RESISTOR CH 2W 33K 1 R133 ERJ2GEJ152 M. RESISTOR CH 2W 1.5K 1 R134 ERJ2GEJ332 M. RESISTOR CH 2W 1.5K 1 R135 ERJ2GEJ224 M. RESISTOR CH 2W 2.0K 1 R136 ERJ2GEJ224 M. RESISTOR CH 2W 2.0K 1 R137 ERJ2GEJ272 M. RESISTOR CH 2W 2.7K 1 R138, 39 ERJ2GEJ104 M. RESISTOR CH 2W 1.0K 1 R140 ERJ2GEJ104 M. RESISTOR CH 2W 100K 2 R140 ERJ2GEJ105 M. RESISTOR CH 2W 100K 1 R141 ERJ2GEJ105 M. RESISTOR CH 2W 100K 1 R142 ERJ2GEJ105 M. RESISTOR CH 2W 100K 1 R145 ERJ2GEJ105 M. RESISTOR CH 2W 100K 1 R146 ERJ2GEJ102 M. RESISTOR CH 2W 1M 1 R147 ERJ2GEJ101 M. RESISTOR CH 2W 100 1 R148-53 ERJ2GEJ330 M. RESISTOR CH 2W 100 1 R148-53 ERJ2GEJ31 M. RESISTOR CH 2W 3.3 6 R154 ERJ2GEJ11 M. RESISTOR CH 2W 33 6 R154 ERJ2GEJ31 M. RESISTOR CH 2W 330 6 R607 ERJ2GEJ32 M. RESISTOR CH 2W 330 6 R607 ERJ2GEJ32 M. RESISTOR CH 2W 330 6 R607 ERJ2GEJ32 M. RESISTOR CH 2W 330 6 R607 ERJ2GEJ32 M. RESISTOR CH 2W 3.9K 1 R500 ERJ2GEJ32 M. RESISTOR CH 2W 3.9K 1 R510 ERJ2GEJ12 M. RESISTOR CH 2W 2.7K 1 R511 ERJ2GEJ12 M. RESISTOR CH 2W 2.7K 1 R512 ERJ2GEJ12 M. RESISTOR CH 2W 2.7K 1 R513 ERJ2GEJ12 M. RESISTOR CH 2W 2.7K 1 R514 ERJ2GEJ12 M. RESISTOR CH 2W 2.7K 1 R515 ERJ2GEJ27 M. RESISTOR CH 2W 2.7K 1 R516 ERJ2GEJ272 M. RESISTOR CH 2W 2.7K 1 R517 ERJ2GEJ13 M. RESISTOR CH 2W 2.7K 1 R518 ERJ2GEJ13 M. RESISTOR CH 2W 2.7K 1 R519 ERJ2GEJ13 M. RESISTOR CH 2W 2.7K 1 R516 ERJ2GEJ13 M. RESISTOR CH 2W 2.7K 1 R517 ERJ2RH0132 M. RESISTOR CH 2W 2.7K 1 R518 ERJ2GEJ13 M. RESISTOR CH 2W 3.3K 1 R517 ERJ2RH0132 M. RESISTOR CH 2W 3.3K 1 R517 ERJ2RH0132 M. RESISTOR CH 2W 1.50K 1 R518 ERJ2GEJ154 M. RESISTOR CH 2W 1.50K 1 R519 ERJ2GEJ154 M. RESISTOR CH 2W 1.50K 1 R520 ERJ2GEJ154 M. RESISTOR CH 2W 1.50K 1 R521 ERJ2GEJ154 M. RESISTOR CH 2W 1.50K 1 R522 ERJ2GEJ163 M. RESISTOR CH 2W 1.50K 1 R523 ERJ2GEJ163 M. RESISTOR CH 2W 1.50K 1 R524 ERJ2GEJ163 M. RESISTOR CH 2W 1.50K 1 R525 ERJ2GEJ160 M. RESISTOR CH 2W 1.50K 1 R526 ERJ2GEJ160 M. RESISTOR CH 2W 1.50K 1 R526 ERJ2GEJ160 M. RESISTOR CH 2W 1.50K 1	R581	ERJ2GEJ560	M. RESISTOR CH 2W 56		
R132 ERJ2GEJ333 M. RESISTOR CH 2W 33K I R133 ERJ2GEJ152 M. RESISTOR CH 2W 1.5K I R134 ERJ2GEJ322 M. RESISTOR CH 2W 3.3K I R135 ERJ2GEJ224 M. RESISTOR CH 2W 2.0K I R136 ERJ2GEJ272 M. RESISTOR CH 2W 2.7K I R137 ERJ2GEJ472 M. RESISTOR CH 2W 2.7K I R138, 39 ERJ2GEJ104 M. RESISTOR CH 2W 100K 2 R140 ERJ2GEJ104 M. RESISTOR CH 2W 100K I R141 ERJ2GEJ104 M. RESISTOR CH 2W 100K I R141 ERJ2GEJ105 M. RESISTOR CH 2W 100K I R142 ERJ2GEJ332 M. RESISTOR CH 2W 3.3K I R148 ERJ2GEJ32 M. RESISTOR CH 2W 3.3K I R148 ERJ2GEJ302 M. RESISTOR CH 2W 10 0 1 R148-53 ERJ2GEJ30 M. RESISTOR CH 2W 10 0 1 R148-53 ERJ2GEJ30 M. RESISTOR CH 2W 33 6 R154 ERJ2GEJ311 M. RESISTOR CH 2W 33 6 R154 ERJ2GEJ311 M. RESISTOR CH 2W 33 6 R507 ERJ2GEJ331 M. RESISTOR CH 2W 33 6 R507 ERJ2GEJ32 M. RESISTOR CH 2W 33 6 R508 ERJ2GEJ32 M. RESISTOR CH 2W 3 30 6 R509 ERJ2GEJ272 M. RESISTOR CH 2W 3.9K 1 R511 ERJ2GEJ182 M. RESISTOR CH 2W 1. NSK 1 R511 ERJ2GEJ182 M. RESISTOR CH 2W 2.7K 1 R511 ERJ2GEJ182 M. RESISTOR CH 2W 2.7K 1 R511 ERJ2GEJ182 M. RESISTOR CH 2W 2.7K 1 R513 ERJ2GEJ182 M. RESISTOR CH 2W 2.7K 1 R514 ERJ2GEJ182 M. RESISTOR CH 2W 2.7K 1 R515 ERJ2GEJ272 M. RESISTOR CH 2W 2.7K 1 R516 ERJ2GEJ182 M. RESISTOR CH 2W 2.7K 1 R517 ERJ2GEJ183 M. RESISTOR CH 2W 2.7K 1 R518 ERJ2GEJ184 M. RESISTOR CH 2W 2.7K 1 R519 ERJ2GEJ185 M. RESISTOR CH 2W 2.7K 1 R518 ERJ2GEJ180 M. RESISTOR CH 2W 3.3K 1 R519 ERJ2GEJ103 M. RESISTOR CH 2W 3.3K 1 R517 ERJ2RHD132 M. RESISTOR CH 2W 3.3K 1 R518 ERJ2GEJ103 M. RESISTOR CH 2W 3.3K 1 R519 ERJ2GEJ103 M. RESISTOR CH 2W 1.3K 1 R519 ERJ2GEJ103 M. RESISTOR CH 2W 1.5K 1 R520 ERJ2GEJ103 M. RESISTOR CH 2W 1.5K 1 R521 ERJ2GEJ103 M. RESISTOR CH 2W 1.5K 1 R522 ERJ2GEJ103 M. RESISTOR CH 2W 1.5K 1 R523 ERJ2GEJ103 M. RESISTOR CH 2W 1.5K 1 R524 ERJ2GEJ103 M. RESISTOR CH 2W 1.5K 1 R525 ERJ3GEYG103 M. RESISTOR CH 2W 1.5K 1 R526 ERJ2GEJ103 M. RESISTOR CH 2W 1.5K 1 R527 ERJ2GEJ103 M. RESISTOR CH 2W 1.5K 1 R526 ERJ2GEJ103 M. RESISTOR CH 2W 1.5K 1	R582	ERJ2GEJ104	M. RESISTOR CH 2W 100K	H	
R133	R583	ERJ2GEJ222	M. RESISTOR CH 2W 2.2K	⊢;	
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R148-53 ERJ2GEJ330 M. RESISTOR CH 2W 33 6 R154 ERJ2GEJ111 M. RESISTOR CH 2W 75K 1 R501-06 ERJ2GEJ331 M. RESISTOR CH 2W 330 6 R507 ERJ2GEJ392 M. RESISTOR CH 2W 3.9K 1 R508 ERJ2GEJ182 M. RESISTOR CH 2W 2.7K 1 R509 ERJ2GEJ182 M. RESISTOR CH 2W 1.8K 1 R510 ERJ2GEJ182 M. RESISTOR CH 2W 1.8K 1 R511 ERJ2GEJ182 M. RESISTOR CH 2W 1.8K 1 R512 ERJ2GEJ182 M. RESISTOR CH 2W 2.7K 1 R513 ERJ2GEJ184 M. RESISTOR CH 2W 1.8K 1 R514 ERJ2GEJ103 M. RESISTOR CH 2W 150K 1 R515 ERJ2GEJ681 M. RESISTOR CH 2W 10K 1 R516 ERJ2GEJ681 M. RESISTOR CH 2W 33K 1 R517 ERJ2GEJ103 M. RESISTOR CH 2W 33K 1 R518 ERJ2GEJ103 M. RESISTOR CH 2W 10K 1 R519 ERJ2GEJ164 M. RESISTOR CH 2W 10K 1 R520, 21 ERJ2GEJ165 M. RESISTOR CH 2W 10K 1 R522 ERJ2GEJ154 M. RESISTOR CH 2W 10K 1 R523 ERJ2GEJ103 M. RESISTOR CH 2W 10K 1 R524 ERJ2GEJ103 M. RESISTOR CH 2W 150K 1 R525 ERJ3GEYG103 M. RESISTOR CH 2W 150K 1		VSC4220	SHIELD CASE (UPPER)		
R154 ERJ2GEJ111 M. RESISTOR CH 2W 75K 1 R501-06 ERJ2GEJ331 M. RESISTOR CH 2W 330 6 R507 ERJ2GEJ392 M. RESISTOR CH 2W 3.9K 1 R508 ERJ2GEJ272 M. RESISTOR CH 2W 2.7K 1 R509 ERJ2GEJ182 M. RESISTOR CH 2W 1.8K 1 R510 ERJ2GEJ182 M. RESISTOR CH 2W 2.7K 1 R511 ERJ2GEJ182 M. RESISTOR CH 2W 2.7K 1 R511 ERJ2GEJ182 M. RESISTOR CH 2W 1.8K 1 R512 ERJ2GEJ272 M. RESISTOR CH 2W 1.8K 1 R513 ERJ2GEJ154 M. RESISTOR CH 2W 150K 1 R514 ERJ2GEJ103 M. RESISTOR CH 2W 150K 1 R515 ERJ2GEJ103 M. RESISTOR CH 2W 10K 1 R516 ERJ2GEJ681 M. RESISTOR CH 2W 33K 1 R517 ERJ2GEJ681 M. RESISTOR CH 2W 33K 1 R518 ERJ2GEJ103 M. RESISTOR CH 2W 10K 1 R519 ERJ2GEJ164 M. RESISTOR CH 2W 10K 1 R520, 21 ERJ2GEJ164 M. RESISTOR CH 2W 150K 1 R522 ERJ2GEJ154 M. RESISTOR CH 2W 150K 1 R523 ERJ2GEJ163 M. RESISTOR CH 2W 150K 1 R524 ERJ3GEJ164 M. RESISTOR CH 2W 150K 1 R525 ERJ3GEYG103 M. RESISTOR CH 2W 150K 1		VSC4221	SHIELD CASE (LOWER)	'	·
R501-06		VMZ2539	BARRIER	₽'	
R507 ERJ2GEJ392 M. RESISTOR CH 2W 3. 9K 1		<u> </u>		1	
R508 ERJ2GEJ272 M. RESISTOR CH 2W 2. 7K 1 R509 ERJ2GEJ272 M. RESISTOR CH 2W 1. 8K 1 R510 ERJ2GEJ272 M. RESISTOR CH 2W 2. 7K 1 R511 ERJ2GEJ182 M. RESISTOR CH 2W 1. 8K 1 R512 ERJ2GEJ272 M. RESISTOR CH 2W 1. 8K 1 R513 ERJ2GEJ154 M. RESISTOR CH 2W 2. 7K 1 R514 ERJ2GEJ154 M. RESISTOR CH 2W 150K 1 R515 ERJ2GEJ681 M. RESISTOR CH 2W 10K 1 R516 ERJ2RHD333 M. RESISTOR CH 2W 680 1 R517 ERJ2RHD333 M. RESISTOR CH 2W 33K 1 R518 ERJ2GEJ103 M. RESISTOR CH 2W 10K 1 R519 ERJ2GEJ154 M. RESISTOR CH 2W 10K 1 R520, 21 ERJ2GEJ681 M. RESISTOR CH 2W 150K 1 R522 ERJ2GEJ154 M. RESISTOR CH 2W 150K 1 R523 ERJ2GEJ103 M. RESISTOR CH 2W 150K 1 R524 ERJ3GEYG103 M. RESISTOR CH 2W 10K 1 R525 ERJ3GEYG103 M. RESISTOR CH 2W 10K 1 R526 ERJ2GEJ102 M. RESISTOR CH 1/16W 51K 1 R527 ERJ2GEJ681 M. RESISTOR CH 2W 10K 1		-	B 0 DOUBD	١.	((071)
R508	■ E13	VEP23422A	PROCESS P. C. BOARD	ין	(RTL)
R510 ERJ2GEJ272 M. RESISTOR CH 2W 2. 7K 1 R511 ERJ2GEJ182 M. RESISTOR CH 2W 1. 8K 1 R512 ERJ2GEJ272 M. RESISTOR CH 2W 2. 7K 1 R513 ERJ2GEJ154 M. RESISTOR CH 2W 150K 1 R514 ERJ2GEJ103 M. RESISTOR CH 2W 10K 1 R515 ERJ2GEJ681 M. RESISTOR CH 2W 680 1 R516 ERJ2RHD333 M. RESISTOR CH 2W 33K 1 R517 ERJ2RHD133 M. RESISTOR CH 2W 33K 1 R518 ERJ2GEJ103 M. RESISTOR CH 2W 10K 1 R519 ERJ2GEJ681 M. RESISTOR CH 2W 10K 1 R519 ERJ2GEJ681 M. RESISTOR CH 2W 10K 1 R520, 21 ERJ2GEJ681 M. RESISTOR CH 2W 150K 1 R522 ERJ2GEJ164 M. RESISTOR CH 2W 150K 1 R523 ERJ2GEJ103 M. RESISTOR CH 2W 150K 1 R524 ERJ3GEYG103 M. RESISTOR CH 2W 10K 1 R525 ERJ3GEYG103 M. RESISTOR CH 2W 10K 1 R526 ERJ2GEJ102 M. RESISTOR CH 1/16W 51K 1 R526 ERJ2GEJ681 M. RESISTOR CH 2W 16K 1			 	\vdash	
R511 ERJ2GEJ182 M. RESISTOR CH 2W 1. 8K 1 R512 ERJ2GEJ154 M. RESISTOR CH 2W 2. 7K 1 R513 ERJ2GEJ154 M. RESISTOR CH 2W 150K 1 R514 ERJ2GEJ103 M. RESISTOR CH 2W 10K 1 R515 ERJ2GEJ681 M. RESISTOR CH 2W 680 1 R516 ERJ2RHD333 M. RESISTOR CH 2W 33K 1 R517 ERJ2RHD132 M. RESISTOR CH 2W 13K 1 R518 ERJ2GEJ103 M. RESISTOR CH 2W 10K 1 R519 ERJ2GEJ154 M. RESISTOR CH 2W 150K 1 R520, 21 ERJ2GEJ681 M. RESISTOR CH 2W 150K 1 R522 ERJ2GEJ103 M. RESISTOR CH 2W 150K 1 R524 ERJ3GEYG103 M. RESISTOR CH 2W 10K 1 R525 ERJ3GEYG103 M. RESISTOR CH 2W 10K 1 R526 ERJ2GEJ102 M. RESISTOR CH 1/16W 10K 1 R527 ERJ2GEJ681 M. RESISTOR CH 1/16W 51K 1 R526 ERJ2GEJ102 M. RESISTOR CH 2W 160K 1		E0070 N/- ===	T OADAGITAD GUA AV. 4	-	
R512 ERJ2GEJ272 M. RESISTOR CH 2W 2.7K 1 R513 ERJ2GEJ154 M. RESISTOR CH 2W 150K 1 R514 ERJ2GEJ103 M. RESISTOR CH 2W 10K 1 R515 ERJ2GEJ681 M. RESISTOR CH 2W 680 1 R516 ERJ2RHD333 M. RESISTOR CH 2W 33K 1 R517 ERJ2RHD132 M. RESISTOR CH 2W 1,3K 1 R518 ERJ2GEJ103 M. RESISTOR CH 2W 1,3K 1 R519 ERJ2GEJ154 M. RESISTOR CH 2W 150K 1 R520, 21 ERJ2GEJ681 M. RESISTOR CH 2W 150K 1 R522 ERJ2GEJ154 M. RESISTOR CH 2W 150K 1 R523 ERJ2GEJ103 M. RESISTOR CH 2W 150K 1 R524 ERJ3GEYG103 M. RESISTOR CH 2W 10K 1 R525 ERJ3GEYG103 M. RESISTOR CH 1/16W 10K 1 R526 ERJ2GEJ102 M. RESISTOR CH 1/16W 51K 1 R527 ERJ2GEJ681 M. RESISTOR CH 2W 160K 1	0301	ECSTOJY156Z	T. CAPACITOR CH6. 3V 15U	1	
R513	0302		C. CAPACITOR CH 16V 0. 1U	1	
R514 ERJ2GEJ103 M. RESISTOR CH 2W 10K 1 R515 ERJ2GEJ681 M. RESISTOR CH 2W 680 1 R516 ERJ2RHD333 M. RESISTOR CH 2W 33K 1 R517 ERJ2RHD132 M. RESISTOR CH 2W 1.3K 1 R518 ERJ2GEJ103 M. RESISTOR CH 2W 10K 1 R519 ERJ2GEJ154 M. RESISTOR CH 2W 150K 1 R520, 21 ERJ2GEJ681 M. RESISTOR CH 2W 680 2 R522 ERJ2GEJ154 M. RESISTOR CH 2W 150K 1 R523 ERJ2GEJ103 M. RESISTOR CH 2W 10K 1 R524 ERJ3GEYG103 M. RESISTOR CH 2W 10K 1 R525 ERJ3GEYG103 M. RESISTOR CH 1/16W 10K 1 R526 ERJ2GEJ102 M. RESISTOR CH 1/16W 51K 1 R526 ERJ2GEJ102 M. RESISTOR CH 2W 1K 1 R527 ERJ2GEJ681 M. RESISTOR CH 2W 1680 1	0303	ECSTOJY156Z	T. CAPACITOR CH6. 3V 15U	1	
R515 ERJ2GEJ681 M. RESISTOR CH 2W 680 1 R516 ERJ2RHD333 M. RESISTOR CH 2W 33K 1 R517 ERJ2RHD132 M. RESISTOR CH 2W 1.3K 1 R518 ERJ2GEJ103 M. RESISTOR CH 2W 10K 1 R519 ERJ2GEJ154 M. RESISTOR CH 2W 150K 1 R520, 21 ERJ2GEJ681 M. RESISTOR CH 2W 150K 1 R522 ERJ2GEJ154 M. RESISTOR CH 2W 150K 1 R523 ERJ2GEJ103 M. RESISTOR CH 2W 10K 1 R524 ERJ3GEYG103 M. RESISTOR CH 2W 10K 1 R525 ERJ3GEYG103 M. RESISTOR CH 1/16W 10K 1 R526 ERJ2GEJ102 M. RESISTOR CH 1/16W 51K 1 R526 ERJ2GEJ102 M. RESISTOR CH 2W 1K 1	0304		C. CAPACITOR CH 50V 150P	1	
R516 ERJZRHD333 M. RESISTOR CH 2W 33K 1 R517 ERJZRHD132 M. RESISTOR CH 2W 1.3K 1 R518 ERJZGEJ103 M. RESISTOR CH 2W 10K 1 R519 ERJZGEJ154 M. RESISTOR CH 2W 150K 1 R520, 21 ERJZGEJ681 M. RESISTOR CH 2W 680 2 R522 ERJZGEJ154 M. RESISTOR CH 2W 150K 1 R523 ERJZGEJ103 M. RESISTOR CH 2W 10K 1 R524 ERJZGEJ103 M. RESISTOR CH 2W 10K 1 R525 ERJZGEJ103 M. RESISTOR CH 1/16W 10K 1 R526 ERJZGEJ102 M. RESISTOR CH 1/16W 51K 1 R526 ERJZGEJ102 M. RESISTOR CH 2W 16K 1 R527 ERJZGEJ681 M. RESISTOR CH 2W 680 1	0305	ECSTOGY226Z	T. CAPACITOR CH 4V 22U	1	
R517 ERJ2RHD132 M. RESISTOR CH 2W 1.3K 1 R518 ERJ2GEJ103 M. RESISTOR CH 2W 10K 1 R519 ERJ2GEJ154 M. RESISTOR CH 2W 150K 1 R520, 21 ERJ2GEJ681 M. RESISTOR CH 2W 680 2 R522 ERJ2GEJ154 M. RESISTOR CH 2W 150K 1 R523 ERJ2GEJ103 M. RESISTOR CH 2W 150K 1 R524 ERJ3GEYG103 M. RESISTOR CH 1/16W 10K 1 R525 ERJ3GEYG513 M. RESISTOR CH 1/16W 51K 1 R526 ERJ2GEJ102 M. RESISTOR CH 2W 16K 1 R527 ERJ2GEJ681 M. RESISTOR CH 2W 680 1 R528 R528 R529	0306	ECSTOJY156Z	T. CAPACITOR CH6. 3V 15U	\vdash	
R518 ERJ2GEJ103 M. RESISTOR CH 2W 10K 1 R619 ERJ2GEJ154 M. RESISTOR CH 2W 150K 1 R520, 21 ERJ2GEJ681 M. RESISTOR CH 2W 680 2 R522 ERJ2GEJ154 M. RESISTOR CH 2W 150K 1 R523 ERJ2GEJ103 M. RESISTOR CH 2W 10K 1 R524 ERJ3GEYG103 M. RESISTOR CH 1/16W 10K 1 R525 ERJ3GEYG513 M. RESISTOR CH 1/16W 51K 1 R526 ERJ2GEJ102 M. RESISTOR CH 2W 1K 1 R527 ERJ2GEJ681 M. RESISTOR CH 2W 680 1	C307-10		C. CAPACITOR CH 16V 0. 1U	₽4	
R519 ERJ2GEJ154 M. RESISTOR CH 2W 150K 1 R520, 21 ERJ2GEJ681 M. RESISTOR CH 2W 680 2 R522 ERJ2GEJ154 M. RESISTOR CH 2W 150K 1 R523 ERJ2GEJ103 M. RESISTOR CH 2W 10K 1 R524 ERJ3GEYG103 M. RESISTOR CH 1/16W 10K 1 R525 ERJ3GEYG513 M. RESISTOR CH 1/16W 51K 1 R526 ERJ2GEJ102 M. RESISTOR CH 2W 1K 1 R527 ERJ2GEJ681 M. RESISTOR CH 2W 680 1	C311, 12	ECSTOJY156Z	T. CAPACITOR CH6. 3V 15U	2	
R520, 21 ERJ2GEJ681 M. RESISTOR CH 2W 680 2 R522 ERJ2GEJ154 M. RESISTOR CH 2W 150K 1 R523 ERJ2GEJ103 M. RESISTOR CH 2W 10K 1 R524 ERJ3GEYG103 M. RESISTOR CH 1/16W 10K 1 R525 ERJ3GEYG513 M. RESISTOR CH 1/16W 51K 1 R526 ERJ2GEJ102 M. RESISTOR CH 2W 1K 1 R527 ERJ2GEJ681 M. RESISTOR CH 2W 680 1	0313-16			14	1
R522 ERJ2GEJ154 M. RESISTOR CH 2W 150K 1 R523 ERJ2GEJ103 M. RESISTOR CH 2W 10K 1 R524 ERJ3GEYG103 M. RESISTOR CH 1/16W 10K 1 R525 ERJ3GEYG513 M. RESISTOR CH 1/16W 51K 1 R526 ERJ2GEJ102 M. RESISTOR CH 2W 1K 1 R527 ERJ2GEJ681 M. RESISTOR CH 2W 680 1	C317	ECSTOJX476Z	T. CAPACITOR CH8. 3V 47U	1	
R523 ERJ2GEJ103 M. RESISTOR CH 2W 10K 1 R524 ERJ3GEYG103 M. RESISTOR CH 1/16W 10K 1 R525 ERJ3GEYG513 M. RESISTOR CH 1/16W 51K 1 R526 ERJ2GEJ102 M. RESISTOR CH 2W 1K 1 R527 ERJ2GEJ681 M. RESISTOR CH 2W 680 1	C318, 19	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	2	<u> </u>
R524 ERJ3GEYG103 M. RESISTOR CH 1/16W 10K 1 R525 ERJ3GEYG513 M. RESISTOR CH 1/16W 51K 1 R526 ERJ2GEJ102 M. RESISTOR CH 2W 1K 1 R527 ERJ2GEJ681 M. RESISTOR CH 2W 680 1	C320	ECST1AY106Z	T. CAPACITOR CH 10V 10U	1	
R525 ERJ3GEYG513 M. RESISTOR CH 1/16W 51K 1 R526 ERJ2GEJ102 M. RESISTOR CH 2W 1K 1 R527 ERJ2GEJ681 M. RESISTOR CH 2W 680 1	0321, 22	ECUX1C104ZFV		2	
R525 ERJ3GEYG513 M. RESISTOR CH 1/16W 51K 1 1 R526 ERJ2GEJ102 M. RESISTOR CH 2W 1K 1 1 R527 ERJ2GEJ681 M. RESISTOR CH 2W 680 1 1	G323	ECSTOJX476Z	T. CAPACITOR CH6. 3V 47U	1	
R526 ERJ2GEJ102 M. RESISTOR CH 2W 1K 1 R527 ERJ2GEJ681 M. RESISTOR CH 2W 680 1	C324, 25	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	2	
R527 ERJ2GEJ681 M. RESISTOR CH 2W 680 1	C326, 27	ECSTOJX476Z	T. CAPACITOR CH6. 3V 47U	2	
	C328-38	EGUX1C104ZFV	C. CAPACITOR CH 16V .0.1U	11	
	C339, 40	ECSTOGY226Z	T. CAPACITOR CH 4V 22U	2	
R529 ERJ2GEJ681 M. RESISTOR CH 2W 680 1	C341, 42	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	2	
R530 ERJ2GEJ102 M. RESISTOR CH 2W 1K 1	C343	ECSTOJX476Z	T. CAPACITOR CH8. 3V 47U	1	
R531 ERJ2GEJ681 M. RESISTOR CH 2W 680 1	0344	ECUX1HO5OCCV	C. CAPACITOR CH 50V 5P	1	
	7		1		
	11	1			

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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
		C. CAPACITOR CH 50V 3300P	1		L308	ELJPC6R8KF	COIL 6. BUH	1	
		C. CAPACITOR CH 50V 100P	1		L309	VLQ0319M6R8	COIL 6.8UH	1	
	ECSTOGY226Z	T. CAPACITOR CH 4V 22U	1		L310-12	VLP0154	COIL	3	
		C. CAPACITOR CH 50V 150P	1		L313-15	ELJPC6R8KF	COIL 6. SUH	3	
		C. CAPACITOR CH 50V 5P	1		L317-19	VLP0154	COIL	3	<u> </u>
C349			1		L320	ELJPC6R8KF	COIL 6. BUH	1	
C35O		G. CAPACITOR CH 16V 0. 1U		I		 	COIL 100UH	-	
		C. CAPACITOR CH 50V 0, 022U	_1		L321, 22	VLQ0319K101			
G352	ECUM1C474KBN	C. CAPACITOR CH 16V 0. 47U	1		L323	ELJNA1R5JF	CO1L 1. 5UH		
0353	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	1		L324-27	VLP0154	COIL	_ 4	
C354	ECUX1H060CCV	C, CAPACITOR CH 50V 6P	1		L330	VLQ0319M6R8	COIL 6. SUH	1	
C355-57	ECUX1H223ZFV	C. CAPACITOR CH 50V 0, 022U	3		L701	ELJPC6R8KF	COIL 6. BUH	1	22-27 (2007) 2007
C358	ECSTOJX476Z	T, CAPACITOR CH8. 3V 47U	1		L702	ELJPC220KF	COIL 22UH	1	
C359		C. CAPACITOR CH SOV 8P	1		L703, 04	ELJPC6R8KF	COIL 6, SUH	2	
		C. CAPACITOR CH 16V 0.1U	1		L705	VLQ0319F150	COIL	1	
C361			╁		L708	ELJPC150KF	COIL 15UH	1	
0701			+÷	<u>_</u>	L707	VLQ0319K331	COIL 330UH	-	
0702	ECSTOJX476Z	T. CAPACITOR CH6. 3V 47U	 		L/0/	V2400101001	000011		
0703	ECST1AY108Z	T. CAPACITOR CH 10V 10U	1	[
C704	ECSTOJY106Z	T, CAPACITOR CH6. 3V 10U	1		PP701	VJP3644B034	CONNECTOR (MALE)		
C709	ECUX1H332KBV	C. CAPACITOR CH 50V 3300P	1		L				
C711	ECST1AY106Z	T. CAPACITOR CH 10V 10U	1		P\$301	VJS3683A044	CONNECTOR (FEMALE)	_1	<u> </u>
0712	ECSTOJY108Z	T. CAPACITOR CH6. 3V 10U	1						<u> </u>
0713	ECUM1H104ZFN	C. CAPACITOR CH 50V 0. 1U	1		Q704	XP4501	TRANSISTOR-RESISTOR	1	
C714, 15		C. CAPACITOR CH 16V 0.1U	2						
0716	ECSTOJY106Z	T. CAPACITOR CH6. 3V 10U	1		QR701	XP1211	TRANSISTOR-RESISTOR	. 1	
0717		C. CAPACITOR CH 16V 0. 22U	1					711	1
	ECEVICA470P	E. CAPACITOR CH 16V 47U	1		R301, 02	ERJ2GEJ103	M. RESISTOR CH 2W 10K	2	
0718		C. CAPACITOR CH 50V 0.01U	+		R303	ERJ2GEJ473	M. RESISTOR CH 2W 47K	1	
C719		L	1:		R304		M. RESISTOR CH 1/16W 0	,	
C720		C. CAPACITOR CH 10V 1U	1			ERJ3GEYOROO	 	3	
G721		C. CAPACITOR CH 50V 1000P	<u> </u>		R305-07	ERJ2GEJ333	M. RESISTOR CH 2W 33K	-	
C724, 25		G, CAPACITOR CH 50V 0.01U	2		R308	ERJ2GEJ153	M. RESISTOR CH 2W 15K	1	
C726	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	_1		R309, 10	ERJ2GEJ333	M. RESISTOR CH 2W 33K	2	
G727	ECSTOJY106Z	T. CAPACITOR CH6. 3V 10U	1		R311	ERJ2GEJ153	M. RESISTOR CH 2W 15K	1	
C728	ECUX1C104ZFV	C, CAPACITOR CH 16V 0.1U	1		R312	ERJ2GEJ333	M. RESISTOR CH 2W 33K	_1	
C729	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1		R313, 14	ERJ2GEOROO	M. RESISTOR CH 2W 0	2	
C730	ECUX1C104ZFV	C. CAPACITOR CH 16V 0. 1U	1		R315-17	ERJ2GEJ392	M. RESISTOR CH 2W 3.9K	3	
C731	ECUM1C105ZFN	C. CAPACITOR CH 18V 1U	1		R320	ERJ2GEJ103	M. RESISTOR CH 2W 10K	1	
G732	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	1		R322, 23	ERJ2GEJ103	M. RESISTOR CH 2W 10K	2	
	ECUX1H102KBV	G. CAPACITOR CH 50V 1000P	1		R328	ERJ2GEJ103	M. RESISTOR CH 2W 10K	1	
0733			2		R330	ERJ2GEJ472	M. RESISTOR CH 2W 4.7K	1	
0734, 35	ECUX1C104ZFV	<u> </u>	1		R331, 32	ERJ2GEJ102	M. RESISTOR CH 2W 1K	2	
C736	ECUX1H223ZFV	C. CAPACITOR CH 50V 0. 022U	⊢`		R333	ERJ2GEJ222	M. RESISTOR CH 2W 2.2K		
C741	ECUX1C104ZFV	G. CAPACITOR CH 16V 0. 1U	1-						
C742	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1 1		R334	ERJ2GEJ103		_:	
L	<u> </u>		L		R335	ERJ2GEJ123	M. RESISTOR CH 2W 12K		
D301	188355	DIODE	1		R336	ERJ2GEOROO	M. RESISTOR CH 2W D	1	
	<u> </u>				R337	ERJ2GEJ221	M. RESISTOR CH 2W 220	_1	<u> </u>
FP301	VJ\$3320B026	CONNECTOR (FEMALE)	1		R338	ERJ2GEJ102	M. RESISTOR CH 2W 1K	-1	· · · · · · · · · · · · · · · · · · ·
FP302	VJS3320B040	CONNECTOR (FEMALE)	1		R339, 40	ERJ2GEJ101	M. RESISTOR CH 2W 100	2	
FP303	VJS33208020	CONNECTOR (FEMALE)	1		R341, 42	ERJ2GEJ102	M. RESISTOR CH 2W 1K	2	
FP304	VJS3320B014	CONNECTOR (FEMALE)	1		R345	ERJ2GEJ103	M. RESISTOR CH 2W 10K	1	
FP305	VJS3452A013	CONNECTOR (FEMALE)	1		R354, 55	ERJ2GEJ103	M. RESISTOR CH 2W 10K	2	
FP701	VJS2960A024	CONNECTOR (FEMALE)	1		R356, 57	ERJ2GEJ102	M. RESISTOR CH 2W 1K	2	
- ''' / ''	1.000000.000		\vdash		R358	ERJ2GEJ101	M. RESISTOR CH 2W 100	1	
10001	XC61AN2712M	10	1		R371-73	ERJ2GEJ331	M. RESISTOR CH 2W 330	3	
10301		10	1		R378	ERJ2GEJ331	M. RESISTOR CH 2W 330	_	
10302	MN1020701M8J		+-		R379-83	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	5	
10303	UPC2384GA	10	┞-			ERJ2GEJ101	M. RESISTOR CH 2W 100	2	
10304	MN67344A1	10	1	<u> </u>	R384, 85			1	
10305	MN67343A2	IC	1		R386	ERJ2GEOROO	M. RESISTOR CH 2W O		ļ
10306, 07	MSM548333	10	2		R387, 88	ERJ2GEJ101	MI. RESISTOR CH 2W 100	2	
10308	TA75W01FU	1C	1		R701	ERJ2GEJ152	M. RESISTOR CH 2W 1.5K	1	
10309-11	MN65761	10	3		R702	ERJ2GEJ224	M. RESISTOR CH 2W 220K	1	
16312	LZ9GA11	IC	Lī		R703	ERJ2GEJ823	M. RESISTOR CH 2W 82K	1	
10313	TC7SH08FU	10	1		R704, 05	ERJ3GEYG303	M. RESISTOR CH 1/16W 30K	2	
10316	XC62AP2502M	10	1		R706, 07	ERJ3GEYJ3R3	M. RESISTOR CH 1/16W 3.3	2	
10317	TC4S584F	10	1		R708	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
10701	TC4S584F	IC	1		R709	ERJ3GEYG123	M. RESISTOR CH 1/16W 12K	1	
10702	LB1830W	IC	1		R710	ERJ2GEJ103	M. RESISTOR CH 2W 10K	1	
	TB6512AF	10	1		R711	ERJ2GEJ153	M. RESISTOR CH 2W 15K	1	
10703		ic	H		R712	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
10704	TA75W01FU		+-:			ERJ2GEJ103	M. RESISTOR CH 2W 10K		
10705	TC9074F	10	1		R713			7	
10706, 07	NJM2902V	10	2		R714	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K		
10708	MN1882421M8K	10	1	L	R715	ERJ2GEJ104	M. RESISTOR CH 2W 100K	1	
L	L		L		R716	ERJ2GEJ472	M. RESISTOR CH 2W 4.7K	1	
L301	VLQ0319M6R8	CO1L 6. 8UH	1		R717	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
L303-05	ELJPC6R8KF	CO!L 6. 8UH	3		R718	ERJ2GEJ225	M. RESISTOR CH 2W 2.2M	1	
L306, 07	VLQ0319K330	COIL	2		R719	ERJ2GEOROO	M. RESISTOR CH 2W O	_1	
	1		T						
	 	<u> </u>	1					_	
		<u> </u>	1				. <u> </u>	_	

VEP80A32A VEP00U25B VEP86143B VEP80A15A VEP80A16A

TEL DONOZ	.,, 12,000	J25B VEP86143B V	· \			· · · · · · · · · · · · · · · · · · ·			AJ-D200HE
Ref. No.	Part No.	Part Name & Descriptio	nPcs	Remarks	Ref. No.	Part No.	Part Name & Description	Pos	Remarks
		M. RESISTOR CH 2W 2.2K	1		W327	ERJ2GEOROO	M. RESISTOR CH 2W O	1	
R722	ERJ2GEJ183	M. RESISTOR CH 2W 18K	1		W705	ERJ2GEOROO	M. RESISTOR CH 2W 0	1	
R723	ERJ2GEJ154	M. RESISTOR CH 2W 150K	1						
R724	ERJ2GEJ102	M. RESISTOR CH 2W 1K	1		X301	EF0S1005E5	CERAMIC RESONATOR	1	
R725	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1		X701	EF0S1205E5	CERAMIC RESONATOR	1	
R726	ERJ3GEYG122	M. RESISTOR CH 1/16W 1.2K	1						
R727	ERJ2GEJ223	M. RESISTOR CH 2W 22K	1						
R728	ERJ2GEJ683	M. RESISTOR CH 2W 68K	1		■ E14	VEP80A32A	ATW SENSOR P. C. BOARD	1	(RTL)
R729	ERJ2GEJ183	M. RESISTOR CH 2W 18K	1						. "
R730		M. RESISTOR CH 2W 6.8K	1						
R731	ERJ2GEJ683	M. RESISTOR CH 2W 68K	1		C1	ECSTOJY106Z	T. CAPACITOR CH6. 3V 10U	1	
R732	ERJ2GEJ563	M. RESISTOR CH 2W 56K	1			ECSTOJY475Z	T. CAPACITOR CH6. 3V 4. 7U	1	.0
R733	ERJ2GEJ224	M. RESISTOR CH 2W 220K	1		C3		C. CAPACITOR CH 16V O. 1U	1	
R734, 35	ERJ2GEJ123	M. RESISTOR CH 2W 12K	2					-	
R734, 35	ERJ2GEJ474	M. RESISTOR CH 2W 470K	+-		101	M52944FP	10	1	
	ERJ2GEJ394	M. RESISTOR CH 2W 390K	+			mon-1111			- 1111-111
R737		M. RESISTOR CH 2W 18K	+ ;		L1	VLQ0464	COIL	1	
R739	ERJ2GEJ183		+;			VL40404		_	
R740	ERJ2GEJ473	i	+:		D1	VJS3452A014	CONNECTOR (FEMALE)	1	
R741	ERJ2GEJ563	M. RESISTOR CH 2W 56K	+:		P1	VJ3343ZAU14	CONNECTOR (PERALE)		
R742	ERJ2GEJ393	M. RESISTOR CH - 2W 39K	+!			130010	TDANGICTOD_DECICTOD	1	
R743	ERJ2GEJ822	M. RESISTOR CH 2W 8.2K	+'	 	01	UN2212	TRANSISTOR-RESISTOR	- 1	
R744	ERJ2GEJ103	M. RESISTOR CH 2W 10K	+'			ED IOCEV 1100	W DECISTOR OF 1/104 46"		
R745	ERJ2GEJ333	M. RESISTOR CH 2W 33K	+1	<u> </u>	R1	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R746	ERJ2GEJ682	M. RESISTOR CH 2W 6.8K	1						
R747, 48	ERJ2GEJ103	M. RESISTOR CH 2W 10K	2	<u> </u>			MISCELLANEOUS		<u> </u>
R749	ERJ3GEYG103	M. RESISTOR CH 1/16W 10K	1					_	
R750	ERJ3GEYG303	M. RESISTOR CH 1/16W 30K	1			VGQ3310	IR PLATE HOLDER	1	
R751	ERJ2GEJ154	M. RESISTOR CH 2W 150K	_ 1			VGQ3306	IR PLATE SPACER	1	
R752	ERJ3GEYJ181	M. RESISTOR OH 1/16W 180	1			VDL0397	IR CUT FILTER	1	
R753	ERJ2GEOROO	M. RESISTOR CH 2W 0	1						
R754	ERJ2GEJ152	M. RESISTOR CH 2W 1.5K	1						
R756	ERJ2GEJ333	M. RESISTOR CH 2W 33K	1		■ E15	VEPOOU25B	VTR START P. C. BOARD	1	(RTL)
R757	ERJ2GEJ223	M. RESISTOR CH 2W .22K	1						
R758	ERJ2GEJ473	M. RESISTOR CH 2W 47K	1						
R759, 60	ERJ2GEJ333	M. RESISTOR CH 2W 33K	2		SW1	EVQQSB048	SWITCH	1	
R761	ERJ2GEJ102	M. RESISTOR CH 2W 1K	1						
R763	ERJ2GEJ102	M. RESISTOR CH 2W 1K	1				MISCELLANEOUS		
R765-68	ERJ2GEJ102	M. RESISTOR CH 2W 1K	4						
R769	ERJ2GEJ473	M. RESISTOR CH 2W 47K	1			V\$T0321	TOGGLE SW	1	
R770-79	ERJ2GEJ102	M. RESISTOR CH 2W 1K	10						
R780	ERJ2GEOROO	M. RESISTOR CH 2W 0	1						
R781, 82	ERJ2GEJ473	M. RESISTOR CH 2W 47K	2		■ E16	VEP86143B	OPERATE P. C. BOARD	1	(RTL)
R783, 84	ERJ2GEJ103	M. RESISTOR CH 2W 10K	2	<u> </u>	-				
R785	ERJ2GEJ472	M. RESISTOR CH 2W 4.7K	1						
R786, 87	ERJ2GEJ105	M. RESISTOR CH 2W 1M	2		D6001-03	RR1102W	DIODE	3	
	ERJ2GEJ102	M. RESISTOR CH 2W 1K	1		2000. 00				
R788		M. RESISTOR CH 2W 0			P501	V.IP3125B010	CONNECTOR (MALE)	1	
R789	ERJ2GEOROO	M. RESISTOR CH 2W 15K	+			10,0,200011		Ė	
R790	ERJ2GEJ153	M. RESISTOR CH 2W 10K	╁		SW6001-05	EVADURANT	SWITCH	5	
R792	ERJ2GEJ103		-		390001 00	E V QF TIDOUT	OH, TOIL		
R793-99	ERJ2GEOROO	M. RESISTOR CH 2W 0		 					
R801-04	ERJ2GEOROO	M. RESISTOR CH 2W 0		<u> </u>	F17	VEDOOA1EA	TOCCI E CM D C BOARD	1	(RTL)
R805	ERJ2GEJ102	M. RESISTOR CH 2W 1K	1		■ E17	VEP80A15A	TOGGLE SW P. C. BOARD	- 1	V112/
R806	ERJ2GEJ332	M. RESISTOR CH 2W 3.3K	1						
	-	CONTOL D. D.	+	<u> </u>	11	ED IECEVATOR	H DESIGNO OU 1/10H		
RA301-03		COMB1. R-R 10K			J1	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	1	
	EXB24V101J	COMBI. R-R 100	8		2000		COMMITTOTOR (MALLEY	_	
RA312	EXB24V103J	COMBI. R-R 10K	1		P9300	VJP1610T	CONNECTOR (MALE)	1	
RA313, 14	EXB24V331J	COMB1. R-R 330	2						
RA315, 16	EXB24V101J	COMBI. R-R 100	2		SW9300, 01		SWITCH	2	
RA317	EXB24V103J	COMBI. R-R 10K	1			VST0187	SWITCH .	_1	
RA318-23	EXB24V102J	COMBI. R-R 1K	6		SW9303	VST0320	SWITCH	1	
RA324, 25	EXB24V103J	COMBI. R-R 10K	2						
RA333-35	EXB24V101J	COMBI. R-R 100	3				MISCELLANEOUS		
RA336, 37		COMB1. R-R 10K	2						
RA338	EXB24V101J	COMBI. R-R 100	1			VMP4267	P. C. B. HOLDER ANGLE	1	1.
RA339	EXB24V103J	COMBI. R-R 10K	1						
RA340, 41	EXB24V152J	RELAY	2					_	
RA342-45		COMBI. R-R 100	4		■ E18	VEP80A16A	POWER SW P. C. BOARD	1	(RTL)
1,072 70	+		1						
TH701	VRT0035K152	THERMISTOR	+,						
10701	VR 1 00000 102		† '	[P9400	VJP1607T	CONNECTOR (MALE)	1	
-	ED INCEADOS	M. RESISTOR CH 2W 0	1	 				<u>-</u> -	
W000	ERJ2GEOROO		+		SW9400	VST0299	TOGGLE SWITCH	1	
W302	ED INCEVAGO	IN RESISTING OUT 1/10 O		11 '	100			<u> </u>	
W305	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	+ :			1	l l		
W305 W307	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	1						
W305			+ :						
W305 W307	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	+ :						

		TON VELOUNISM VEI	~						
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks	Ref. No.	Part No.	Part Name & Description	Pc:	Remarks
E19 Y	/EP80A17A	MODE CHECK P. C. BOARD	1	(RTL)				L	
					QR6501, 02	UN5213	TRANSISTOR-RESISTOR	2	
					QR6503	UN5211	TRANSISTOR-RESISTOR	1	
P9401	VJP1607T	CONNECTOR (MALE)	1		QR6504	UN5213	TRANSISTOR-RESISTOR	1	
-10101	1		_		QR6505	UN5113	TRANSISTOR-RESISTOR	1	
000401	EVQQS205K	SWITCH	1		QR6508	UN5113	TRANSISTOR-RESISTOR	,	
SW9401	EVGGSZUSIK	JAT 10.1	~~		QR6509	UN5213	TRANSISTOR-RESISTOR	١,	
			-		410000	0.10270	THOUSE TO A TREE TO THE	Η.	1
				(art)	DeFO1 04	ED ISSENDIA	M. RESISTOR CH 1/10W 100K	١	
■ E20	VEP80A18A	MONITOR VR P.C. BOARD		(RTL)	ļ	ERJ6GEYG104		- 1	
					R6505	ERJ6GEYF561	M. RESISTOR CH 1/10W 560	'	<u> </u>
	1					ERJ6GEYG394	M. RESISTOR CH 1/10W 390K	3	
VR9200	VRV0080	V. RESISTOR	_1	_	R6509-16	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	S
					R6517-24	ERJ6GEYG823	M. RESISTOR CH 1/10W 82K	٤)
					R6525	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	1	' <u> </u>
■ E21	VEP80A19A	BACK UP P. C. BOARD	1	(RTL)	R6526	VRE0034E183	M. RESISTOR CH 1/10W 18K	1	
	-		_		R6527	VRE0034E222	M. RESISTOR CH 1/10W 2.2K	1	:
			_		R6528	VRE0034E682	M. RESISTOR CH 1/10W 6.8K	1	
					R6529	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	1	
		MISCELLANEOUS						-	
					R6530	VRE0034E104	M. RESISTOR CH 1/10W 100K	 '	
	BCR20H4	BATTERY HOLDER	1		R6531	VRE0034E153	M. RESISTOR CH 1/10W 15K	L	
					R6532, 33	VRE0034E563	M. RESISTOR CH 1/10W 56K	1	
·					R6534	VRE0034E472	M. RESISTOR CH 1/10W 4.7K		<u> </u>
■ E22	VEP80A21A	FLEX RING P. C. BOARD	1	(RTL)	R6535	ERJ6GEYG155	M. RESISTOR CH 1/10W 1.5M		
			_		R6536	ERJ6GEYG104	M. RESISTOR CH 1/10W 100K	1	
			_		R6538	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	1	
SW9100	EVQQS205K	SWITCH	1		R6540	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K		
249100	EVGGSZUSK	311,01	<u> </u>		R6542	ERJ6GEYG223	M, RESISTOR CH 1/10W 22K	-	
			-					-	
			-	(mm) 1	R6543	ERJ6GEYG102			
■ E23	VEP86264A	R SIDE P. C. BOARD	1	(RTL)	R6544	ERJ8GEYG682	M. REISITOR CH 1/10W 6. BK	-	}
					R6545-48	ERJ14YJ100	M. RESISTOR CH 1/4W 10	1	
					R6549	ERJ6GEYF822	M. RESISTOR CH 1/10W 8. 2K	L	<u> </u>
C6501, 02	ECUM1H22OJCN	G. CAPAGITOR CH 50V 22P	2		R6550	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K		<u> </u>
C6503, 04	ECUM1H150JCN	C. CAPACITOR CH 50V 15P	2		R6551	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	1	'\ <u></u>
C6505		E. CAPACITOR 6.3V 47U	-1		R6552	ERJ6GEYG102	M. RESISTOR CH 1/10M 1K	1	
C6506	ECEAOJKS331	E. CAPACITOR 6, 3V 330U	1		R6553	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	1	
C6515	ECEA1EKS220	E. CAPACITOR 25V 22U	1		R6554	ERJ6GEYF124	M. RESISTOR CH 1/10W 120K	1	
			Η;		R6555	ERJ6GEYG104	M. RESISTOR CH 1/10W 100K	1	
C6516	ECEAOJKS470		 		R6556		M. RESISTOR CH 1/10W 120K		
C6517	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	<u> </u>		}	ERJ6GEYF124			
C6518	ECUM1C105KBM	C. CAPACITOR CH 16V 1U	1		R6557	ERJ6GEYG104	M. RESISTOR CH 1/10W 100K	├	<u> </u>
C6519	ECUM1E104ZFN	C. CAPACITOR CH 25V O. 1U	1		R6558, 59	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	2
06520	ECEAOJKS331	E. CAPACITOR 6, 3V 330U	_1					<u> </u>	<u> </u>
C6521	ECEA1CSN4R7	E. CAPACTOR 16V 4. 7U	• 1		SW6501-04	EVQQSB04B	SWITCH	1	
C6522	ECEA1EKS3R3	E. CAPACITOR 25V 3.3U	1		SW6505-07	VSS0186	SWITCH	3	3)
C6524	ECUX1E104KBN	C. CAPACITOR CH 25V 0. 1U	1						
C6525, 26	ECEAOJKS330	E. CAPACITOR 8. 3V 33U	2		TP6501-04	EYF6CU	TEST POINT	1	1
C6527	ECEA1CKS100	E. CAPACITOR 16V 10U	1					1	
C6528		C. CAPACITOR CH 25V 0.1U	1		VR6501, 02	VRV0080	V. RESISTOR	1	
								 	
C6529		E. CAPACITOR 6, 3V 47U	1		W53-63	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	11	
C653O		C. CAPACITOR CH 25V 0. 1U	_1		1100-00	EKOBGE I OKOO	M. RESISTOR ON 1710W	 '	'
C6531		E. CAPACITOR 16V 10U	1					-	
C6532-34	ECUX1E104KBN	C. CAPACITOR CH 25V O. 1U	3	<u> </u>	X6501	VSX0094C	CRYSTAL OSCILLATOR	1	
L			<u> </u>		X6502	VSX0140	CRYSTAL OSCILLATOR	1	<u> </u>
D6501-06	MA142K	DIODE	6			L		1	<u></u>
D6508	MA142K	DIODE	1		L	L		L	
D6510-13	MA142K	DIODE	4		■ E24	VEP27086A	H-DEF P. C. BOARD	L	(RTL)
D6514	HZ16-1L	DIODE	1						
D6515	MA704	DIODE	1			l			
D6516	MA142K	DIODE	1		C7401, 02	ECEA1AGE221	E. CAPACITOR 10V 220U	2	2
D6518-22	MA142K	DIODE	5		07403	VCF0066J123	P. CAPACITOR 0. 012U		
D6516-22	mr.1 441	21006	۲		07404	VCF0066J332	P. CAPACITOR 3300P		
L		t	١-,					-	
106501	UPD75316BE83	10	1		07407	ECEATHGE 101		ļ	
106502	S8420BF	10	\vdash^1		07408, 09	ECKD3A472MEH		-2	
106503	NJU7112AM	10	1	L	07410	VCF0066J223	P. CAPACITOR 0. 022U	1	
106504	\$81350HG	10	1		07414	VCF0066J182	P. CAPACITOR 1800P	1	
106505	MC14013BF	10	1		C7416	VCEAOJAP330	C. CAPACITOR 6. 3V 33P	_1	
106506	MC14001BF	10	1		C7417	ECEA1AGE221	E. CAPACITOR 10V 220U	1	
106507	MC14011BF	IC	1					Γ	1
	MC14538BF	10	2		D7401	E011F82	DIODE	1	T
,,,,,,,,,,		 	<u> </u>		D7402	MA142K	DIODE	-	
	V (D) C: 47	COMMECTOR (MALE)		 	D7403	MA141K	DIODE	+	
P6501	VJP1614T	CONNECTOR (MALE)	1	<u></u>				-	
P6502	VJP1607T	CONNECTOR (MALE)	1		D7404	E011F82	DIODE	!	
P6503	VJP1614T	CONNECTOR (MALE)	1		D7405	MA141K	DIODE	_1	ļ
P6504	VJP1610T	CONNECTOR (MALE)	1		L			L	<u></u>
1			L		L7402	ELH5L220	COIL 22UH	1	
Q6501, 02	2SD968-R	TRANSISTOR	2		£7403	VLQEL06F22OJ	COIL	1	
	 							-	
	L	<u></u>						-	

Ref. No.	Part No.	Pairt Name & Description	Pes	Remarks	Ref. No.	Part No.	Part Name & Description	Pc	s Remarks
	VLQ0620	COIL	1	.10002.113				Ľ	
27.5.		·			L7001	VLQ0177K151	COIL 150UH	1	1
P7007	VJP2264	CONNECTOR (MALE)	1		L7002-04	VLQ0319M6R8	COIL 6. 8UH	3	3
	VJP1232T	CONNECTOR (MALE) 5P	1						
	VJP1595T	CONNECTOR (MALE) 2P	1		P7002	VJP1597T	CONNECTOR (MALE) 4P	1	1
					P7014	VJP1595T	CONNECTOR (MALE) 2P	1	1
Q7402, 03	2SK1954	TRANSISTOR	2		P7016	VJP2277	CONNECTOR (MALE)	1	1
								L	
R7405	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1		Q7001	2SD1819A-R	TRANSISTOR	1	1
	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1		Q7002	2SB1218A-R	TRANSISTOR	1	1
R7408	ERD\$2TJ222	C. RESISTOR 1/4W 2.2K	1		Q7003	2SJ278	TRANSISTOR	1	1
	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	3		Q7005	2SD1819A-R	TRANSISTOR	1	1
R7412	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	1		Q7006	2803624	TRANS1STOR	1	1
	ERJ3GEYK155	M. RESISTOR CH 1/16W 1.5M	2		Q7007	2SD1819A-R	TRANSISTOR	1	1
R7417	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1		Q7008	2SA1411	TRANSISTOR	1	1
R7418	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1		Q7010	2SD1819A-R	TRANSISTOR	1	1
R7419	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1			 		Т	
R7420	ERJ3GEYJ910	M. RESISTOR CH 1/16W 91	1		⚠ R7001	ERQ16NK1RO	F. RESISTOR 1	1	1
K/420	EXCOGLICATO	M. 7.2010101 011 17 1011 01	┝╌		R7002	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
T7401	ETF18L34A	TRANSFORMER	+	····	R7003	ERJ3GEYJ224	M. RESISTOR CH 1/16W 220K	t –	11
17401	EIFIGE34A	INVERSION ON MER	Η,		R7004, 05	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	₽	2
TD7.404	EAEBOTT	TEST DOINT	1		R7004, 05	ERJ3GEYJ393	M. RESISTOR CH 1/16W 39K	+	1
TP7401	EYF6CU	TEST POINT	⊢'		R7007	ERJ3GEYJ101		-	-
		TEGT DOINT	-					H	
TPG	EYF6CU	TEST POINT	1		R7008	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	-	``L
			<u> </u>		R7010	VRE0034E183	M. RESISTOR CH 1/10W 18K	+-	1
VR7402	EVMLRGAOOB16	V. RESISTOR 10#	1		R7011	VRE0034E222	M. RESISTOR CH 1/10W 2.2K	1	<u> </u>
VR7403	EVML3GA00B55	V. RESISTOR 500K	1		R7013	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1	'
					R7014	ERJ3GEYJ474	M. RESISTOR CH 1/16W 470K	_	
					R7015	ERJ3GEYG822	M. RESISTOR CH 1/16W 8.2K	_ 1	1
■ E25	VEP27087A	V-DEF P. C. BOARD	1	(RTL)	R7016	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	1
					R7017	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1	1
					R7018	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	1	1
07001	ECA1EFQ121	E. GAPACITOR 25V 120U	1		R7019	ERJ3GEYJ183	NI. RESISTOR CH 1/16W 18K	1	1
C7002	ECUX1H332KBV	C. CAPACITOR CH 50V 3300P	1		R7020	ERJ3GEYJ121	M. RESISTOR CH 1/16W 120	1	1
07003	ECAOJKF121	E. CAPACITOR 6.3V 120U	1		R7021	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	1	1
07005	ECGC1BA4R7	C. CAPACITOR 12V 4.7P	1		R7022	VRE0034E133	M. RESISTOR CH 1/10W 13K	1	1
C7007	ECUX1E104ZFV	C. CAPACITOR CH 25V O. 1U	1		R7023	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	1
07009	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1		R7024	ERJ3GEYG822	M. RESISTOR CH 1/16W 8.2K	1	1
C7010	EGST1CY105Z	T. CAPACITOR CH 16V 1U	1		R7025	RD10UMB1	DIODE	1	11
C7010		C. CAPACITOR CH 25V 0. 023U	H		R7026	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K		1
	ECUX1E104ZFV	C. CAPACITOR CH 25V 0. 1U	1		R7027	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1	
C7012	ECSF1VM105X	E. CAPACITOR 35V 1M	 		R7028	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	1	
C7013			 '		R7029	ERJ3GEYJ393	M. RESISTOR CH 1/16W 39K	1	
C7014	ECST1CX106Z		 '				M. RESISTOR CH 1/16W 220		
¢7015		C. CAPACITOR CH 50V 6800P	Ľ		R7030	ERJ3GEYJ221		 	-
C7016	ECUM1H222JN	C. CAPACITOR CH 50V 2200P	<u> </u>		R7032	VRE0034E103	M. RESISTOR CH 1/10W 10K	-	-
C7017	1	C. CAPACITOR CH 16V 0. 047U	1		R7033	VRE0034E682	M. RESISTOR CH 1/10W 6.8K	-	
C7018		C. CAPACITOR CH 16V 1U	1		R7034		M. RESISTOR CH 1/16W 4.7K	1	·
C7019	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		R7035	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	Ľ	
07020	ECST1CY105Z	T. CAPACITOR CH 16V 1U	1		R7036	ERJ3GEYJ4R7	M. RESISTOR CH 1/16W 4.7	1	
C7021	ECST1CY335Z	T. CAPACITOR CH 16V 3.3U	1		R7037	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1	1
07022	ECUX1H472KBV	C. CAPACITOR CH 50V 4700P	1		R7038	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	_1	
C7023	ECUX1H181JCV	C. CAPACITOR CH 50V 180P	1		R7039	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	!
C7024	ECUX1E104ZFV	C. CAPACITOR CH 25V O. 1U	1		R7040	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
07025	ECAOJKF121	E. CAPACITOR 6.3V 120U	1		R7041	ERJ3GEYJ681	ML RESISTOR CH 1/16W 680		1
C7026, 27	ECST1CX106Z	T. CAPACITOR CH 16V 10U	2		R7042	ERJ3GEYJ120	M. RESISTOR CH 1/16W 12	1	1
C7028	ECUX1H272KBV	C. CAPACITOR CH 50V 2700P	1		R7043	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	1
67029	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1		R7050	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
07023	ECA1CKF560	E. CAPACITOR 16V 56U	1		R7051	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
C7035	VCEA1CAP330	C. CAPACITOR 16V 33U	1	Mark III	R7052	ERJ3GEYJ912	M. RESISTOR CH 1/16W 9.1K	1	
	ECAOJKF121	E. CAPACITOR 6.3V 120U	1		R7053	ERJ3GEYJ512	M. RESISTOR CH 1/16W 5.1K	1	1
07036	ECUM1H222JN	C. CAPACITOR CH 50V 2200P	1					Ė	T
07037		E. CAPACITOR OF SOV 2200F	1		TP7001, 02	EYF6CU	TEST POINT	2	2
C7038	VCEA1EAP150	C. CAPACITOR CH 50V 220P	1		,501, 02			-	
07039			1		TPG	EYF6CU	TEST POINT	1	
C7040		C. CAPACITOR CH 25V 0.1U			iru	-11 000		F,	
C7041		P. CAPACITOR 0. 022U	1	**	\m2004	EVALT IOAOOOEO	V DECISTOD FOO	-	
C7044	ECCF1H331JC	C. CAPACITOR 50V 330P	1		VR7001	EVM7JGA00B52			
	<u> </u>				VR7002	EVM7JGA00B53		1	
D7001	MA3180	DIODE	1		VR7003	EVM7JGA00B52		1	
D7002	E0100S0412	DIODE	1		VR7004	EVM7JGA00B22		1	
D7003	MA141K	DIODE			VR7005	VRV01138500	V. RESISTOR 50	_1	
D7004	MA143	DIODE	1		VR7006	EVM7JGA00B53	V. RESISTOR 5K	1	
107001	TL5001CPS	1C	1					L	
107002	HA11423MP	IC	1		■ E26	VEP27088A	CN P. C. BOARD	1	(RTL)
107003	AN77LO9M	IC	1						
	1				I				1
107003	1								

Ref. No.	A VEP270		,					_	
	Part No.	Part Name & Description	Pes	Remarks	Ref. No.		Part Name & Description	Pes	Remarks
					R7322-24	VRE0034E102	M. RESISTOR CH 1/10W 1K	3	
P7003	VJP3450	CONNECTOR (MALE)	1		R7325		M. RESISTOR CH 1/16W 390	1	
P7005	VJP3450	CONNECTOR (MALE)	1		R7326	VRE0034E222	M. RESISTOR CH 1/10W 2.2K	_1	
P7008	VJP1599T	CONNECTOR (MALE)	1		R7327	ERJ3GEYJ184	M. RESISTOR CH 1/16W 180K	_1	
P7009	VJP1600T	CONNECTOR (MALE)	1		R7328	ERJ3GEYJ154	M. RESISTOR CH 1/16W 150K	1	
			Γ		R7329	VRE0034E682	M. RESISTOR CH 1/10W 6.8K	1	
Q7201	2SB1218A-R	TRANSISTOR	1		R7330	VRE0034E222	M. RESISTOR CH 1/10W 2.2K	1	
47201	200121011		 		R7331	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
QR7202-05	11115014	TRANSISTOR-RESISTOR	4		R7332, 33	VRE0034E562	M. RESISTOR CH 1/10W 5.6K	2	
UR /202-03	UN3214	THURSTON RESTON	+				C. CAPACITOR CH 50V 0.5P	1	
	ED 1005Y0470	M. RESISTOR CH 1/16W 4.7K	1			ERJ3GEYG473	M. RESISTOR CH 1/16W 47K	1	
R7201	ERJ3GEYG472		 				M. RESISTOR CH 1/16W 0	1	
R7202	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	1				M. RESISTOR CH 1/16W 220K	1	
R7203	ERJ3GEYJ271	M. RESISTOR CH 1/16W 270	1	<u> </u>			M. RESISTOR CH 1/16W 100K	-	
R7204	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1					⊢ ;	
R7205-09	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	5				M. RESISTOR CH 1/16W 10K	-	
	L		<u>_</u>				M. RESISTOR CH 1/16W 10K	1	
TPG	EYF6CU	TEST POINT	1		R7347		M. RESISTOR 1/4W 2.7K	1	
					R7348	EROS2CKG4702	M. RESISTOR 1/4W 47K	1	
			Π					L	
■ E27	VEP27089A	EVF FRONT P. C. BOARD	1	(RTL)	SW7301-03	VSS0186	SWITCH	3	1
	1	1	t-						
	 	 	+		TP7301	EYF6CU	TEST POINT	1	
A70.51	POPA-110F 470	E. CAPACITOR 50V 47U	+-					-	
C7301	ECEA1HGE470		+-		TPG	EYF6CU	TEST POINT	1	
C7302	ECST1CC156Z	T. CAPACITOR CH 16V 15U	\perp 1	 	154	211 000		⊢'	
07303	ECST1AC226Z	T. CAPACITOR CH 10V 22U	↓ ¹	ļ	VETAC:	EMERICA	V DECISTOR "	-	
C7304	ECUM1C105ZFN	C. CAPACITOR CH 18V 1U	1	 		EVUFNAE03B13		<u> </u>	
C7305	ECST1AC226Z	T. CAPACITOR CH 10V 22U	1		VR7302	EVUFNAE03B55		1	
C7306	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1		VR7303	EVUFNAE03B15	V. RESISTOR 100K	1	
C7309, 10	ECUX1E104ZFV	C. CAPACITOR CH 25V O. 1U	2		L			<u> </u>	
C7313	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1		l		MISCELLANEOUS	_	
07314	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1						
C7315, 16		G. CAPAGITOR CH 25V O. 1U	2			VMX1658	LED HOLDER	2	
C7317	ECAOJKF560	E. CAPACITOR 6. 3V 56U	1	 				1	
0/31/	ECHOOKESOO	E. OAL AUTTER D. GV GG	╁	 					
		L	╀.		■ E28	VEP27090C	EVF CRT MASK P. C. BOARD	1	(RTL)
D7301, 02		DIODE	1 2	 	- E20	VLF270300	CAN ON MACH 1. C. DOMES	├.	1002
D7303, 04	EBR5504S	LED	2					-	
D7307	E562	DIODE	11					-	
D7308	MA143	DIODE	11			B62232S	DIODE	'	
					D502-05	AY2232S	DIODE	4	<u> </u>
DL.7301	VLD0259	DELAY LINE	1	L	D506	PR2232S	LED	1	
			T		1			L	
107301	TC7SO4F	IC	1]	MISCELLANEOUS		
107302	TC7S32F	10	1						
10,002	 	1	1			VJF0900	CRT HOLDER (1)	1	
D7004	VJP2315	CONNECTOR (MALE)	١,		 	XTN2+4G	SCREW	2	
P7004		CONNECTOR (MALE) 2P	١.			VGF0529	BLIND SHEET	1	
P7015	VJP1606T	CONNECTOR (MALE) 2F	╁'	L					
		1		1 1	ł		HOUR METER COVER	1	1
Q7301~04		<u> </u>	1		ļ	VGH4055	HOUR METER COVER	1	
		TRANSISTOR	1	 		VGH4055	HOUR METER COVER	1	
Q7305	2SD1819A-R 2SC3624	TRANSISTOR	1					1	(OT)
			1		■ E29	VEP83357A	HOUR METER COVER PRE SHUFFLE P. C. BOARD	1	(RTL)
Q7305	2SC3624	TRANSISTOR	1		■ E29			1	(RTL)
Q7305 Q7308	2SC3624 2SA1411	TRANSISTOR TRANSISTOR	1			VEP83357A	PRE SHUFFLE P. C. BOARD		
Q7305 Q7306 Q7307	2SC3624 2SA1411 2SB1218A-R	TRANSISTOR TRANSISTOR TRANSISTOR	1		■ E29 C7, C8	VEP83357A ECUX1E104ZFV	PRE SHUFFLE P. C. BOARD C. CAPACITOR CH 25V 0. 1U	2	
Q7305 Q7308 Q7307 Q7308	2SC3624 2SA1411 2SB1218A-R 2SK316-Q	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	1 1			VEP83357A ECUX1E104ZFV	PRE SHUFFLE P. C. BOARD		
Q7305 Q7308 Q7307 Q7308 Q7309 Q7310	2SC3624 2SA1411 2SB1218A-R 2SK316-0 2SB1218A-R 2SD1821-R	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	1		C7, C8	VEP83357A EGUX1E104ZFV EGUX1E104ZFV	PRE SHUFFLE P. C. BOARD C. CAPACITOR CH 25V 0. 1U	2	
Q7305 Q7306 Q7307 Q7308 Q7309 Q7310 Q7311	2SC3624 2SA1411 2SB1218A-R 2SK316-Q 2SB1218A-R 2SD1821-R 2SC4181	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	1		C7, C8 C10	VEP83357A ECUX1E104ZFV ECUX1E104ZFV ECUX1E104ZFV	PRE SHUFFLE P. C. BOARD C. CAPACITOR CH 25V 0. 1U C. CAPACITOR CH 25V 0. 1U	2	
Q7305 Q7308 Q7307 Q7308 Q7309 Q7310	2SC3624 2SA1411 2SB1218A-R 2SK316-0 2SB1218A-R 2SD1821-R	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	1		C7, C8 C10 C12	VEP83357A ECUX1E104ZFV ECUX1E104ZFV ECUX1E104ZFV ECEVOJV470Q	PRE SHUFFLE P. C. BOARD C. CAPACITOR CH 25V 0. 1U C. CAPACITOR CH 25V 0. 1U C. CAPACITOR CH 25V 0. 1U	2 1	
97305 97308 97307 97308 97309 97310 97311 97312	2SC3624 2SA1411 2SB1218A-R 2SK316-Q 2SB1218A-R 2SD1821-R 2SC4181 2SD1819A-R	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	1 1 1 1		C7, C8 C10 C12 C13	VEP83357A ECUX1E104ZFV ECUX1E104ZFV ECUX1E104ZFV ECEY0JV470Q ECUX1E104ZFV	PRE SHUFFLE P. C. BOARD C. CAPACITOR CH 25V 0. 1U C. CAPACITOR CH 25V 0. 1U C. CAPACITOR CH 25V 0. 1U E. CAPACITOR CH6. 3V 47U	2 1 1	
Q7305 Q7308 Q7307 Q7308 Q7309 Q7310 Q7311 Q7312	2SG3624 2SA1411 2SB1218A-R 2SK316-Q 2SB1218A-R 2SD1821-R 2SC4181 2SD1819A-R ERJ3GEYJ103	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR M. RESISTOR CH 1/16W 10K	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		C7, C8 C10 C12 C13 C14 C15	VEP83357A ECUX1E104ZFV ECUX1E104ZFV ECUX1E104ZFV ECEV0JV470Q ECUX1E104ZFV ECEV0JV470Q	PRE SHUFFLE P. C. BOARD C. CAPACITOR CH 25V 0. 1U C. CAPACITOR CH 25V 0. 1U C. CAPACITOR CH 25V 0. 1U E. CAPACITOR CH6. 3V 47U C. CAPACITOR CH 25V 0. 1U E. CAPACITOR CH6. 3V 47U	2 1 1 1	
Q7305 Q7308 Q7307 Q7308 Q7309 Q7310 Q7311 Q7312 R7301 R7302	2SG3624 2SA1411 2SB1218A-R 2SK316-Q 2SB1218A-R 2SD1821-R 2SC4181 2SD1819A-R ERJ3GEYJ103 ERJ3GEYJ203	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR M. RESISTOR CH 1/16W 10K M. RESISTOR CH 1/16W 20K	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		C7, C8 C10 C12 C13 C14 C15 C26	VEP83357A ECUX1E104ZFV ECUX1E104ZFV ECEVOJV4700 ECUX1E104ZFV ECEVOJV4700 ECUX1E104ZFV ECEVOJV4700 ECUX1E104ZFV	PRE SHUFFLE P. C. BOARD C. CAPACITOR CH 25V 0. 1U C. CAPACITOR CH 25V 0. 1U C. CAPACITOR CH 25V 0. 1U E. CAPACITOR CH6.3V 47U C. CAPACITOR CH6.3V 47U C. CAPACITOR CH6.3V 47U C. CAPACITOR CH6.3V 47U C. CAPACITOR CH6.3V 0. 1U	2 1 1 1 1	
07305 07306 07307 07308 07309 07310 07311 07312 R7301 R7302 R7303	2SC3624 2SA1411 2SB1218A-R 2SK316-Q 2SB1218A-R 2SD1821-R 2SD1821-R 2SC4181 2SD1819A-R ERJ3GEYJ103 ERJ3GEYJ203 ERJ3GEYJ104	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR M. RESISTOR CH 1/16W 10K M. RESISTOR CH 1/16W 20K M. RESISTOR CH 1/16W 100K			C7, C8 C10 C12 C13 C14 C15 C26	VEP83357A ECUX1E104ZFV ECUX1E104ZFV ECUX1E104ZFV ECEVOJV4700 ECUX1E104ZFV ECEVOJV4700 ECUX1E104ZFV ECEVOJV4700	PRE SHUFFLE P. C. BOARD C. CAPACITOR CH 25V 0. 1U C. CAPACITOR CH 25V 0. 1U E. CAPACITOR CH 25V 0. 1U	2 1 1 1 1 1	
Q7305 Q7306 Q7307 Q7308 Q7309 Q7310 Q7311 Q7312 R7301 R7302 R7303 R7304	2SC3624 2SA1411 2SB1218A-R 2SK316-Q 2SB1218A-R 2SD1821-R 2SD1821-R 2SD1819A-R ERJ3GEYJ103 ERJ3GEYJ203 ERJ3GEYJ104 ERJ3GEYJ104	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR M. RESISTOR CH 1/16W 10K M. RESISTOR CH 1/16W 100K M. RESISTOR CH 1/16W 100K M. RESISTOR CH 1/16W 180			C7, C8 C10 C12 C13 C14 C15 C26 C27	VEP83357A ECUX1E104ZFV ECUX1E104ZFV ECEVOJV4700 ECUX1E104ZFV ECEVOJV4700 ECUX1E104ZFV ECEVOJV4700 ECUX1E104ZFV ECEVOJV4700 ECUX1E104ZFV	PRE SHUFFLE P. C. BOARD C. CAPACITOR CH 25V 0. 1U C. CAPACITOR CH 25V 0. 1U C. CAPACITOR CH 25V 0. 1U E. CAPACITOR CH 25V 0. 1U C. CAPACITOR CH 25V 0. 1U E. CAPACITOR CH 25V 0. 1U E. CAPACITOR CH 25V 0. 1U E. CAPACITOR CH 25V 0. 1U C. CAPACITOR CH 25V 0. 1U C. CAPACITOR CH 25V 0. 1U	2 1 1 1 1 1 1 1	
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Q7305 Q7308 Q7307 Q7308 Q7309 Q7310 Q7311 Q7312 R7302 R7302 R7303 R7304 R7305, 08 R7307 R7308 R7309 R7310 R7311 R7312 R7312 R7314 R7315 R7316 R7317	2SC3624 2SA1411 2SB1218A-R 2SK316-Q 2SB1218A-R 2SD1821-R 2SD1821-R 2SD1819A-R ERJ3GEYJ103 ERJ3GEYJ104 ERJ3GEYJ101 ERJ3GEYJ101 ERJ3GEYJ101 ERJ3GEYJ101 ERJ3GEYJ101 ERJ3GEYJ101 ERJ3GEYJ101 ERJ3GEYJ103 ERJ3GEYJ103 ERJ3GEYJ104 ERJ3GEYJ101 ERJ3GEYJ101 ERJ3GEYJ101 ERJ3GEYJ103 ERJ3GEYG322 ERJ3GEYG224 VRE0034E913 VRE0034E223 ERJ6GEYOROO	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR M. RESISTOR CH 1/16W 20K M. RESISTOR CH 1/16W 100K M. RESISTOR CH 1/16W 100K M. RESISTOR CH 1/16W 100 M. RESISTOR CH 1/16W 220K M. RESISTOR CH 1/16W 220K M. RESISTOR CH 1/10W 91K M. RESISTOR CH 1/10W 91K M. RESISTOR CH 1/10W 22K			C7, C8 C10 C12 C13 C14 C15 C26 C27 C31 C33 C34 C55 C57 C64 C65 C203 C204 C206 C207 C209-11 C212	VEP83357A ECUX1E104ZFV ECUX1E104ZFV ECEVOJV4700 ECUX1E104ZFV ECEVOJV4700 ECUX1E104ZFV ECEVOJV4700 ECUX1E104ZFV ECEVOJV4700 ECUX1E104ZFV ECEVOJV4700 ECUX1E104ZFV ECEVOJV4700 ECUX1E104ZFV ECEVOJV4700 ECUX1E104ZFV ECEVOJV4700 ECUX1H103KBV ECUX1H103KBV ECUX1H103KBV ECUX1H103KBV ECUX1H103KBV ECUX1H103KBV ECUX1H103KBV ECUX1H103KBV ECUX1H103KBV ECUX1H103KBV ECUX1H103KBV	PRE SHUFFLE P. C. BOARD C. CAPACITOR CH 25V O. 1U C. CAPACITOR CH 25V O. 1U C. CAPACITOR CH 25V O. 1U C. CAPACITOR CH 25V O. 1U E. CAPACITOR CH 25V O. 1U E. CAPACITOR CH 25V O. 1U C. CAPACITOR CH 3V 47U C. CAPACITOR CH 3V 33U C. CAPACITOR CH 50V O. 01U E. CAPACITOR CH 50V O. 01U C. CAPACITOR CH 50V O. 01U	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

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D.C.No.	Dont No	Part Name & Description	Pos	Remarks	Ref. No.	Part No.	Part Name & Description	Pc	Remarks
Ref. No.	Part No. ECUM1C473KBV	C. CAPACITOR CH 16V 0.047U	1	Remarks	C670	ECEVOJV470Q	E. CAPACITOR CH6. 3V 47U	1	
		C. CAPACITOR CH 50V 0.01U	1		Ç672		C. CAPACITOR CH 50V 22P	1	
			1	·		ECEAOJU470	E. CAPACITOR 6. 3V 47U		
		C. CAPACITOR CH 25V 0.1U			C878			<u> </u>	
		E. CAPACITOR CH6. 3V 47U	1		C801-04		C. CAPACITOR CH 25V 0. 1U	4	
C252		C. CAPACITOR CH 50V 0.01U	1		C805		C. CAPACITOR CH 50V 22P	1	
C253	ECEVOJV470Q	E. CAPACITOR CH6. 3V 47U	1		C807, 08	ECUX1E104ZFV	C. CAPACITOR CH 25V O. 1U	_2	!
G254	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	1		C809	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	_1	
C263	ECEVOJV470Q	E. CAPACITOR CH6. 3V 47U	1		C810	ECUX1H22OJCV	C. CAPACITOR CH 50V 22P	1	
C264	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	1		G811	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	1	
C272	ECUX1E104KBN	C. CAPACITOR CH 25V 0. 1U	1		C812-14	ECUX1E104ZFV	G. CAPAGITOR CH 25V O. 1U	3)
		C. CAPACITOR CH 50V 18P	1		C816	ECUX1H390JCV	C. CAPACITOR CH 50V 39P	1	
C274		C. CAPACITOR CH 50V 7P	1		0817, 18	ECUX1E104ZFV	C. CAPACITOR CH 25V 0, 1U	2	
		C. CAPACITOR CH 50V 82P	1		C819	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	1	
G275			-i		C820	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	-	
C276		C. CAPACITOR CH 25V 0.1U	<u> </u>			 -			
C279		C. CAPACITOR CH 25V 0.1U	1		C821	ECEVOJV3300		H.	
C280	ECEVOJV3300	E. CAPACITOR CH6. 3V 33U	1		C822	ECUX1E104ZFV	C. CAPACITOR CH 25V O. 1U	1	<u> </u>
C301-04	ECUX1H103KBV	C. GAPACITOR CH 50V 0. 01U	4		C902, 03	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	2	
0308, 09	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	2		C906	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	_1	
0310, 11	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	2		C92O	ECUX1H390JCV	C. CAPACITOR CH 50V 39P	_1	
0312	ECUX1E104ZFV	C. CAPACITOR CH 25V 0. 1U	1		C921-25	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	:	il .
0403, 04	VCK0152	C. CAPACITOR	2		C928	ECUX1H390JCV	C. CAPACITOR CH 50V 39P	1	
0405	ECUX1H103KBV	C. CAPACITOR OH SOV O. OIU	1			l		<u> </u>	
C406	EGST1GC336Z	T. CAPACITOR CH 16V 33U	1		D201	MA142K	DIODE	1	
	VCK0151	C. CAPACITOR OF TOV 350	1		D203, 04	MA704	DIODE		
0407			2		DEVO, 04			H-	<u> </u>
C408, 09	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2		D) enc	VI DOGGE	DELAY LINE	H.	
C410	VCK0151	C. CAPACITOR	₽1		DL602	VLD0265	DELAY LINE	\vdash	<u> </u>
C411-13	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	3			l	l ==-	_	
0414	VCK0151	C. CAPACITOR	1		FL2-L4	VLF09410223	FILTER	Ľ	
C415-17	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	3		FL601	VLF1179	FILTER	. 1	<u></u>
C602, 03	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	2		FL602	VLF1337	FILTER		<u> </u>
C605, 06	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	2					Γ	
C608	ECUX1E104ZFV	C. CAPACITOR CH 25V 0. 1U	1		106	XC62AP5002P	10		
C609	ECUX1H181JCV	C. CAPACITOR CH 50V 180P	1		108	XC62DN5002P	IC	T 1	
C610	ECEVOJV470Q	E. CAPACITOR CH6. 3V 47U	1		109	XC62AP3002P	16		
		C. CAPACITOR CH 50V 39P	+		1094	CY7C1992OZC	10		
C611	ECUX1H390JCV		 		10201	EL4583CS	IC		
C812	ECUX1H070DCV	C. CAPACITOR CH 50V 7P	1			TC7W14FU	10	l;	1
C613	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1		10202			1	<u> </u>
C614	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1		10203	TCVHC04FS	IC .	1	`
C615		C. CAPACITOR CH 50V 27P	1		10205	TC7W125FU	10	1	<u> </u>
C616	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	·	10206	NJM062M	10	_1	<u> </u>
0617	ECST1CC336Z	T. CAPACITOR CH 16V 33U	1		10213	XC62AP5002P	10	_1	I .
C618	ECUX1H560JCV	C. CAPACITOR CH 50V 56P	1		10301	T163G26-1022	10		
C620	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	1		10302	TC7WUO4FU	10	1	ıl ·
C623		C. CAPACITOR CH SOV O. OIU	1		10305	TCVHC74FS	10	Г	
C624	ECEVOJV470Q	E. CAPACITOR CH6. 3V 47U	1		10306	TC4W53FU	10	1	
C625		C. CAPACITOR CH 50V 39P	1		10402	MN657021F	10	1	
		C. CAPACITOR CH 50V 7P	1		10601	TC7SH08FU	ic	1	
G626			1		10602	AD817AR	10		
C627		C. CAPACITOR CH 50V 100P	+				10	-	
G628	ECUX1H22OJCV		1	·	10603	AD826AR			
C629		C. CAPACITOR CH 50V 27P	1		10604	M51272FP	IC		
C630	ECUX1H103KBV		1		10608-10	TC7S08FU	10] :	-
C631	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1		IC611	XC62AP5002P	IC		
0632	ECST1CC336Z	T. CAPACITOR CH 16V 33U	1		10801	AD826AR	ic	_1	
C633	ECUX1H560JCV	C. CAPACITOR CH 50V 56P	1		10802	AD817AR	1C		
C635, 36	ECUX1H22OJCV	C. CAPACITOR CH 50V 22P	2		IC901	T160G41-1437	10	ŀ	
C637	ECUX1H103KBV	75 75 75	1		10903	CG25123-5106	IC	1	
C638	ECUX1H22OJCV		1		10907	TC7S04FU	10	1	
C640	ECUX1H103KBV		1		10910	CY7C19920ZC	IC	1	
	ECUX1H151JCV		1		 	t		1	
C641			H		L101-03	VLF1315A102	FILTER	۱,	
C642	ECUX1H561JCV		1					-	<u> </u>
C643, 44	ECST1CC336Z	T. CAPACITOR CH 16V 33U	2		L201-03	VLQ0319K101	COIL 100UH	۲	<u> </u>
C645, 46	ECUM1C105KBM		2		L207	VLP0155	COIL	\vdash^1	
C647	ECUM1E473KBN	C. CAPACITOR CH 25V 0. 047U	1		L208	VLQ0319K101	COIL 100UH		
C648, 49	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		L263	VLQ0319K101	COIL 1000H	\Box	1
C650	ECUM1E473KBN	C. CAPACITOR CH 25V 0. 047U	1		L264	VLQ0163J221	GOIL 220UH	1	
C651	ECUX1E104ZFV	C. CAPACITOR CH 25V O. 1U	1		L300-07	VLP0155	COIL		
C652	ECST1CC336Z	T. CAPACITOR CH 16V 33U	1		L309-19	VLP0155	COIL	11	
C653	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		L402	VLQ0464K6R8	COIL 6. BUH	1	
C654	ECUM1E473KBN		1		L601	VLQ0426J220	COIL 22UH	1	
	 	 	1		L602	VLQ0163J390	COIL 39UH	H	
C655	ECUX1E104ZFV		+		L603	VLQ0319K101	COIL 100UH	-	
C656	ECEVOJV4700	E. CAPACITOR CH6. 3V 47U	1					H	·
C657, 58	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2		L604	VLQ0426J820	COIL 82UH	_	
C664	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	1 1		L605	VLQ0426J680	COIL 68UH	1	<u> </u>
C667	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		L607	VLQ0319K101	COIL 100UH	1	
C668	ECST1CC336Z	T. CAPACITOR CH 16V 33U	1		L608	VLQ0426J820	COIL 82UH	_1	
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		A	_	D1	Pof No	Part No.	Part Name & Description	Pos	Remarks
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks	Ref. No.			1	Remarks
L609	VLQ0426J680	COIL 68UH	1		R418		M. RESISTOR CH 1/16W 0		
L611, 12	VLQ0426J470	COIL 47UH	2		R426, 27	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	2	
L613	VLQ0426J180	COIL 18UH	1		R601	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	1	
L614	VLQ0426J560	COIL 56UH	1		R603	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
		COIL 1,00UH	1		R605	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2. 2K	1	
L618	VL00319K101		 `		R606		M. RESISTOR CH 1/16W 3.9K	1	
L803, 04	VLQ0319K101	COIL 100UH	2					_	
			L		R607	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	`
P1	VJ\$3791B036	CONNECTOR (FEMALE)	1		R608	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
P2	VJS3806E140	CONNECTOR (FEMALE)	1		R609	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	!
		CONNECTOR (MALE) BP	1		R610	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1	
P3	VJP3125B006	CONNECTOR (MALE) OF	┞-				M. RESISTOR CH 1/16W 1K	1	
			<u> </u>		R611	ERJ3GEYJ102		-	
Q201	2SD1819A-R	TRANSISTOR	1		R612	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K		
Q601-06	2SD1819A-R	TRANSISTOR	6		R614, 15	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2	l
Q607	2SA1532-B	TRANSISTOR	1		R616	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
			1		R619		M. RESISTOR CH 1/16W 0	1	
Q608	2SD1819A-R	TRANSISTOR	 				THERMISTOR	-	f
Q609	2SA1532-B	TRANSISTOR	1		R620	VRT014116250		-	
Q610-12	2SB1218A-R	TRANSISTOR	3		R622, 23	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	2	
Q613	2SD1819A-R	TRANSISTOR	1		R624	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
Q616	2SB1218A-R	TRANSISTOR	1		R625	ERJ3GEYJ471	M. RESISTOR CH 1/16W 470	1	
		TRANSISTOR	† ;		R626		M. RESISTOR CH 1/16W 1.5K	1	
Q801	2SD1819A-R		+-'	 	<u> </u>		M. RESISTOR CH 1/16W 1K	Ť	
Q802-04	2SB1218A-R	TRANSISTOR	3	 	R627	ERJ3GEYJ102		⊢- <u>'</u>	
Q805	2SD1819A-R	TRANSISTOR	\perp 1		R628, 29	ERJ3GEYJ471	M. RESISTOR CH 1/16W 470	2	
Q806	XN4501	TRANSISTOR-RESISTOR	1		R631	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	_1	<u> </u>
 	1	<u> </u>			R632	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
00001	IMEGEO	TDANS I STOP-BES I STOP	1		R633, 34	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2	<u></u>
QR301	UN5213	TRANSISTOR-RESISTOR	1	<u> </u>			M. RESISTOR CH 1/16W 1.5K	2	
QR801	XP4312	TRANSISTOR-RESISTOR	↓_¹	 	R635, 36	ERJ3GEYG152		-	
l	ł		L		R637	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	_1	
R21 .	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	1		R638	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	_1	1
R44, 45	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	1 2		R639, 40	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	2	1.4
			1		R641	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R104	ERJ3GEYOROO							+	
R107-14	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1 8		R842	ERJ3GEYOROO		 '	
R203	ERJ3GEYJ823	M. RESISTOR CH 1/16W 82K]_1		R645	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	<u> </u>
R204	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	1	R646, 47	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2	
R205	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1		R648, 49	ERJ3GEYG152	M. RESISTOR CH 1/18W 1.5K	2	
	 		+:		R650	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	1	
R206	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	↓ _'	 		 		H	
R207	ERJ3GEYJ471	M. RESISTOR CH 1/16W 470	1	<u> </u>	R651	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	<u> </u>
R208	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K] 1	<u> </u>	R652, 53	ERJ3GEYOROO	M. RESISTOR CH 1/16W D	2	<u> </u>
R213	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1		R654	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	<u> </u>
R216	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1		R655	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	1	
			1		R656	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R217	ERJ3GEYG882	M. RESISTOR CH 1/16W 6.8K	+-'		<u> </u>			1	
R220	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	1		R658	VRE0071E102		<u> </u>	
R221	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M] 1		R660	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	_1	<u> </u>
R266	ERJ3GEYJ471	M. RESISTOR CH 1/16W 470	T		R661	VRE0071E472	M. RESISTOR CH 1/16W 4.7K	1	
R268	ERJ3GEYJ684	M. RESISTOR CH 1/16W 680K	1		R663	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
	+		+-	 	R665	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R272	ERJ3GEYJ222		+	 			M. RESISTOR CH 1/16W 470	1	
R274	ERJ3GEYOROO	M. RESISTOR CH 1/16W Q	\perp 1	<u> </u>	R666	VRE0071E471	 	<u> </u>	
R276	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0]]	<u> </u>	R667	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	1	<u> </u>
R278	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	1		R668, 69	VRE0071E241	M. RESISTOR CH 1/18W 240	2	4
R280	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	1		R671	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	}
	+	M. RESISTOR CH 1/16W 0	1		R675, 76	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2	
R282	ERJ3GEYOROO		-		R677	VRE0071E273	M. RESISTOR CH 1/16W 27K	1	
R285	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1	 				}	
R286	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1W	1	 	R678, 79	VRE0071E183	M. RESISTOR CH 1/16W 18K	2	
R287	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	[<u> </u>	R680	VRE0071E273	M. RESISTOR CH 1/16W 27K	1	
R288	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1		R681	VRE0071E221	M. RESISTOR CH 1/16W 220	1	
R303	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	1.		R682	VRE0071E102	M. RESISTOR CH 1/16W 1K	1	
<u> </u>		M. RESISTOR CH 1/16W 0	+:	 	R683	VRE0071E121	M. RESISTOR CH 1/16W 120	1	
R307~09	ERJ3GEYOROO	 	+		<u></u>	1		1	
R316, 17	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	1	<u> </u>	R684	VRE0071E221		-	
R321	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	L	<u> </u>	R685	VRE0071E332	M. RESISTOR CH 1/16W 3. 3K	1	
R323	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0		J	R686	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R330	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	1		R687, 88	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	2	
		 	+	,	R690	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R332, 33	ERJ3GEYOROO		+	 			<u> </u>	H	
R335	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	<u> </u>	R695		THERMISTOR	⊢'	
R336	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0		<u> </u>	R696, 97	VRE0071E132	M. RESISTOR CH 1/16W 1. 3K	2	
R337	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	T		R698	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	1	L
R346	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	1		R700	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
			+		R701	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	,	
R347	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	╌				 	+÷	
R370	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	1		R703	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	├-'	
R401-08	EXB24V151JX	COMBI. R-R 150		BL 1	R706, 07	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	2	L
R409	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	1		R801	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5. 6K	1	
<u> </u>		M. RESISTOR CH 1/16W 5.6K	1		R802	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1	
R410	ERJ3GEYJ562		1	<u> </u>	<u></u>	}	M. RESISTOR CH 1/16W 2. 2K	 	t
R411	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	 	R805	ERJ3GEYJ222	 	Η.	
R412	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K		4	R806	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	<u> </u>	
R413	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1		R807	ERJ3GEYJ471	M. RESISTOR CH 1/16W 470	_1	
R414-16	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1:		R808	VRE0071E152	M. RESISTOR CH 1/16W 1.5K	1	
			1		R810	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R417	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	+	 	<u> </u>			┝╌	
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1	1		1	<u> </u>	L	<u> </u>	<u> </u>		L
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D.C.N.	Part No.	Part Name & Description P	s Remarks	Ref. No.	Part No.	Part Name & Description	Pes	Remarks
Ref. No.			1	NOTE NO.	rui v mer	Tell V Medic & Books application		
			1					
			1		 		-	
			1				-	
		M. RESISTOR CH 1/16W 6.8K						
		M. RESISTOR CH 1/16W 47	1		<u> </u>		! -	
R816		M. RESISTOR CH 1/16W 33	1				<u> </u>	
R817	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	L			_	
R818	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1.				_	
R819	VRE0071E680	M. RESISTOR CH 1/16W 68	1				L	
R820	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1					
R821	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1					
		M. RESISTOR CH 1/16W 680	1				Γ	
R823		M. RESISTOR CH 1/16W 1.8K	1					
R825		M. RESISTOR CH 1/16W 68	1				T	
		M. RESISTOR CH 1/16W 10K	1					
R827		M. RESISTOR CH 1/16W 220K	1				H	,
R828			1				\vdash	
R829		M. RESISTOR CH 1/16W 9.1K	<u> </u>				├-	
R830	VRE0071E822	M. RIESISTOR CH 1/16W 8.2K	1				-	
R833, 34	VRE0071E102	M. RESISTOR CH 1/16W 1K	2				-	
R835	VRE0071E561	M. RESISTOR CH 1/16W 560	1				├-	
R836	VRT014116250	THERMISTOR	1				<u> </u>	
R837	VRE0071E101	M. RESISTOR CH 1/16W 100	1]			<u> </u>	ļ
R838	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1				<u>L</u>	
R839	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1				lacksquare	
R840	VRE0071E561	M. RESISTOR CH 1/16W 560	1	L			\perp	
R841	VRE0071E680	M. RESISTOR CH 1/16W 68	1				L	
R907, 08	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2					
R909	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1					
R910	VRE0071E111	M. RESISTOR CH 1/16W 110	1				T	
R911	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1		<u> </u>			
		M. RESISTOR CH 1/16W 0	1			<u> </u>	1	
R917	ERJ3GEYOROO	 	8				 	
R926-33	EXB24V151JX	 	8		l		\vdash	
R935-42	EXB24V151JX	COMBI. R-R 150					╁─	
R946, 47	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	2				├-	
R948, 49	ERJ3GEYJ151	M. RESISTOR CH 1/16W 150	2				-	
R950-52	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	3				├-	
R954	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	1				_	
							ـــــ	
TG1	EYF6CU	TEST POINT	1				L_	
TG801	EYF6CU	TEST POINT	1				<u> </u>	
TP201-03	EYF6CU	TEST POINT	3		İ	l		
TP301	EYF6CU	TEST POINT	1					
TP307-09	EYF6CU	TEST POINT	3				Γ	
TP401-03	EYF6CU	TEST POINT	3					
	EYF6CU	TEST POINT	4				1	
17001 04	-							
VC601	VCV0047	TRIMMER	1				1	
VC001	7070047	THI MEN					t^-	
	ED MIT 10400014	V. RESISTOR 10K	1				\vdash	
VR201	EVM7JGA00B14		1	 	 		1	:
VR602	EVM7JGA00B53						1	
VR603		V. RESISTOR 1K	1	 			 	
VR604	EVM7JGA00B22		1	 	 	<u> </u>	\vdash	
VR605		V. RESISTOR 1K	1	l } _	ļ	ļ	├-	<u> </u>
VR607	EVM7JGA00B14		1				-	
VR608		V. RESISTOR 5K	1		ļ		-	,
VR609, 10		V. RESISTOR 2K	2	l ———			_	
VR801	EVM7JGA00B23	V. RESISTOR 2K	1				L.,	·····
VR802, 03	EVM7JGA00B13	V. RESISTOR 1K	2		· .		Ш	
VR804	EVM7JGA00B23	V. RESISTOR 2K	1					
	1							
X201	VSX0677	CRYSTAL OSCILLATOR	1					
X301	VSX0891	CRYSTAL OSCILLATOR	1					
 	† · · · · · ·				l			
	 						М	
	 							
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chnical Bulletin

Supplement to the Service Manual

Broadcast Product

Subject: Mechanical Chassis Unit Supply Information

this supplement to	gether with the Service Manu	ıal as follows :	
	Bulletin No.	Order No.	Effective from
Model No.	53	VSD9606M501A	
AJ-D7Q0E/EN	11	VSD9708M604	
AJ-D200HE AJ-D800E/EN	4	VSD9708M606A	

Mechanical Chassis Assembly (2)

To improve the serviceability and manufacturing productivity, the Mechanical Chassis unit is supplied with the Cassette Compartment Unit as follows.

AJ-D700/D	800				
Part Number Ref. No.	Original Part No. VXY1229	New Part No. VXY1229	Part Name & Descriptions MECHANICAL CHASSIS U	Pcs 1	Remarks

AJ-D200

AJ-D200					
Part Number Ref. No.	Original Part No. VXY1287	New Part No. VXY1287	Part Name & Descriptions MECHANICAL CHASSIS U	Pcs 1	Remarks

TM3549TM3614

Panasonic

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echnical Bullet

Supplement to the Service Manual

Broadcast Product

Subject : Addition of		al ac follows:	Effective from
Please use this supplement tog Model No. AJ-D700E/EN AJ-D800E/EN AJ-D200HE	116 78 39	Order No. VSD9606M501A VSD9708M606A VSD9708M604 Dassis Assembly (2)	L8TKA0001 L8TKA0001 L8TKA0001

Mechanical Chassis Assembly (2)

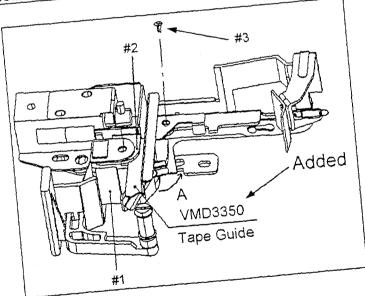
Symptom: The RF signal may be recorded only at the exit side of RF envelope.

If the power is turned OFF during the tape loading, the tape may slack by the timing of turning off. If the unit is vibrated by the tape slack, the tape may take off from the S1 and S4 posts. Jause

Remedy: To prevent the tape from taking off from the post, Tape Guide (VMD3350) is added over the tension

post even if the tape is slacked. Remarks Pos Part Name & Descriptions 10→1 New Part No. Part Number TAPE GUIDE Original Part No. VMD3350 Ref. No. 60

- 2. Install the Tape Guide (VMD3350) between #1
- 3. Tighten the screw #3 loosely with the Tape Guide and tighten the screw #3 firmly pushing the Tape Guide to an arrow direction (A).
- 4. Confirm that the clearance between T1 post and T1 Guide is within specification. If it is out of specification, adjust the clearance according to <T1 Guide Position Adjustment> of the Service Manual.



M1669TM4015

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Technical Bulleti

Supplement to the Service Manual

Broadcast Product

Subject: Improvement of Photo Sensor Voltage Adjustment Range

Please use this supplement together with the Service Manual as follows:

Model No.

Bulletin No.

Order No.

Effective from

AJ-D200HE

VSD9708M604

L7TKA0001

Board : Servo (VEP82212B)

V19921# 1030051

Symptom: Tape beginning/end detection level cannot be adjusted.

Cause

: There is a little allowance of the adjustment range against the circuit tolerance.

Remedy: To improve the Photo Sensor Voltage Adjustment, the following modification is performed.

1). Resistor R553 is changed from 1/16W, 470Ω to 1/16W, 220Ω on the foil side. (A-3)

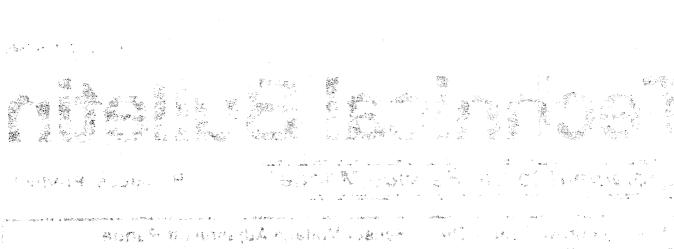
2). Variable resistor VR503 is changed on the foil side. (A-3)

3). Variable resistor VR504 is changed on the foil side. (A-3)

4). According to this change, the adjustment values of TP503 and TP504 are changed as follows.

TP503 (Vs) is $3.2V \pm 0.8V$ TP504 (Vt) is $3.2V \pm 0.8V$

Part Number		Part Name & Descriptions	Pcs	Remarks
Ref. No. R553 VR503 VR504	Original Part No. ERJ3GEYJ471 EVM7JSX30B14 EVM7JSX30B53	M. RESISTOR CH 1/16W 220 V. RESISTOR	1 1 1	



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Technical Bulletin

Supplement to the Service Manual

Broadcast Product

Subject: Software Version Up Grade

Please use this supplement together with the Service Manual as follows:

Model No.

Bulletin No.

Order No.

Effective from

AJ-D200HE

VSD9708M604

L7TKA0001

Board: Servo (VEP82212B)

The following software has been up-dated to add the functioning of the VTR.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
IC501	MN6755486H8M	MN6755486H8P	IC		

Ref. No.	Schematic	Diagram	P.C. Board		
	Page	Area No.	Page	Area No.	
IC501	SCM-31	D~H-7~10 (5/10)	CBA-3	C-3 (C)	

< Improvement of Performance >

1. Tape damage may occur during loading mode. It is improved.

2. When the power is turned OFF, the tape stopping is delayed. It causes the tolerance of circuit adjustment. It is improved.

3. When the mode is changed, the tape may be loosened. It is improved.

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Technical Bu

Supplement to the Service Manual

Broadcast Product

Subject: Addition of Screw Adhesive

a use this supplement toge	ether with the Service Man	uai as ioliows.	
	Bulletin No.	Order No.	Effective from
Model No.	<u></u>	VSDD9708M604	19TKA0001
AJ-D200E √	65		I9TKA0001
AJ-D215HE	* . 2	VSD9904M007	V199214 103005.

Frame Assembly (1) Frame Assembly (2)

U24892# 2023112

Symptom: The screws on the Frame Assembly (1) and (2) sections may be loosened.

Remedy : Screw adhesive is applied to the screws on the Frame Assembly (1) and (2) sections.

- 1. Regarding the locations of the adhesive application to the screws on the Frame Assembly (1) and (2) sections, refer to the next page.
- 2. Specification of screw adhesive application
 - * Approx. 0.02g of the adhesive must be applied to the surface of the thread from the tip to the half of the thread section.
 - After applying the adhesive, check that it covers the visible area on the thread.



Apply adhesive to the half of the thread section.

TM4211TM4226TM4229:3

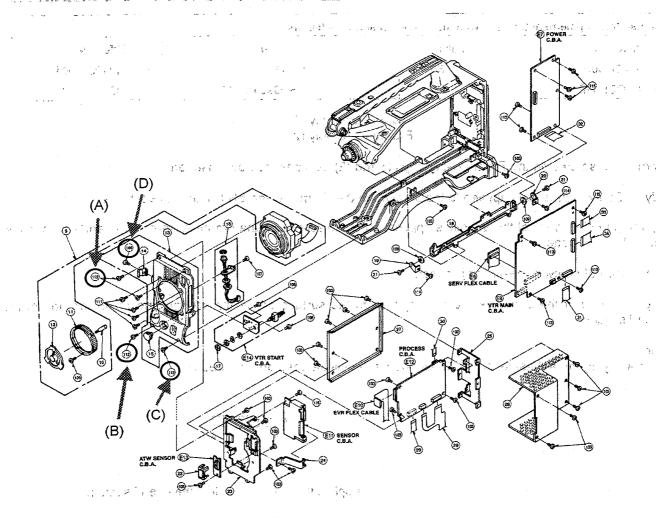
Adhesive Application Positions

Control of the second

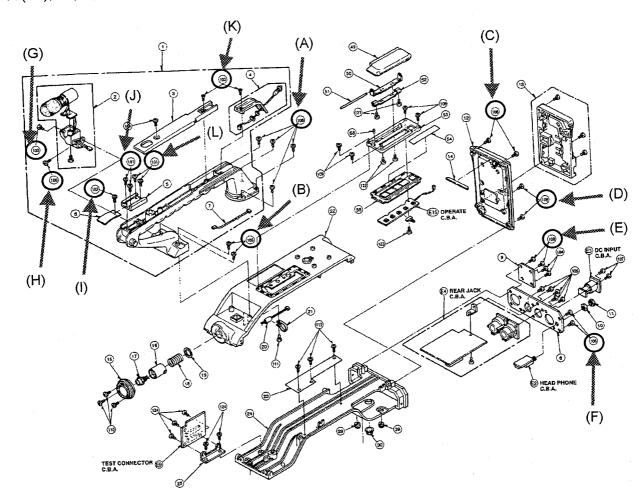
1) Frame Assembly (1) ... 5 positions 2) Frame Assembly (2) ... 23 positions

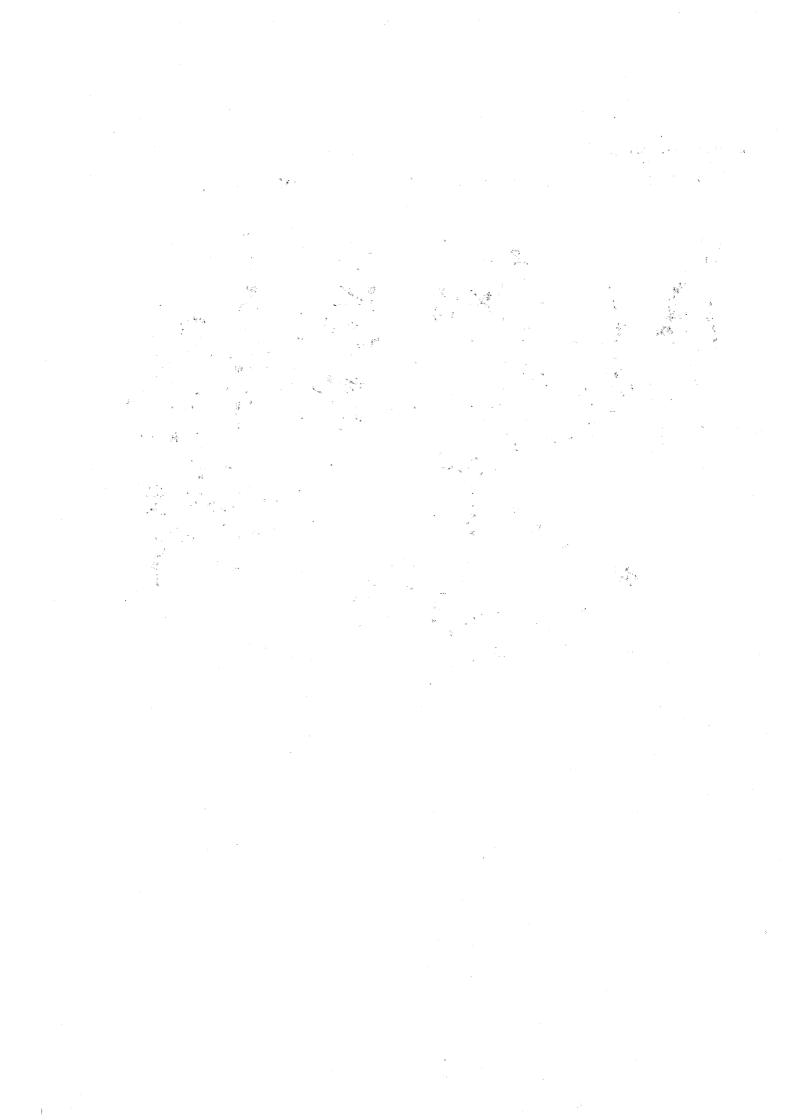
Reference Exploded Views of Adhesive Application Locations * As per the Exploded Views of Service Manual

1). Frame Assembly (1) (Application locations) À (X2), B (X1), C (X1), D (X1)



2). Frame Assembly (2)
(Application locations)
A (X4), B (X2), C (X2), D (X2), E (X2), F (X2), G (X1), H (X1), I (X1), J (X2), K (X2), L(X2)





Technical Bullet

Supplement to the Service Manual

Broadcast Product

Subject: Countermeasure for Damage of Cylinder Driver IC

	None Manu	al ac follows	
Please use this supplement to		Order No.	Effective from
Model No.	Bulletin No.	-	B9TKA0001
AJ-D200HE	60	VSD9708M604	D 01101000

Board : Servo (VEP82212B) VM_LIMIT (VEP80B09A)

Symptom: When recording after condensation is released, E SLACK (CYL NG) may occur.

Cause

: The driver IC may be damaged due to the following conditions.

- 1). Due to the repetition of starting of cylinder rotation or switching of modes (rotation speeds).
- 2). Tape sticks to the cylinder in the reduced condensation that is not detected yet and the cylinder phase is swung right and left. Then excessive fluctuation of load is brought to the driver IC.
- 3). The drive current is supplied to the cylinder even if the cylinder is locked due to the condensation. * This phenomena occurrence may increase when the Menu Setting "HUMID OPE" is set to ON.
- Remedy : 1). The VM_LIMIT P.C. Board (which limits the voltage applied to the motor driver) is added.
 - 2). Resistor R218 (ERJ8GCYG681) is deleted from the foil side.
 - * Note *When this modification is introduced, IC202 (MDC05) must be replaced with a new one at the same time. Because it may be fatigued by overload.

Part Number		T	Part Name & Descriptions	Pcs	Remarks
Ref. No.	Original Part No.	New Part No.	M.RESISTOR CH 1/8W 680	1→0	
R218	ERJ8GCYG681		VM LIMIT P.C. BOARD	0→1	
		VEP80B09A	C.CAPACITOR CH 25V 0.1U	0→1	
C1		ECUX1E104KBN	I IC	0→1	
IC1		TA75W393FU	TRANSISTOR	[0→2]	
Q1, Q2		2SD1820R	TRNSISTOR-RESISTOR	0→1	
QR1		UN5213 ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	0→1	
R1	-	ERJ3GET3123 ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	[0→1]	
R2		ERJ3GE1G002 ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	0→1	
R3		ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	0→1	
R4		ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	[0→2]	
R5, R6		ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	0→1	
R7		ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	[0→2]	
R8, R9			M.RESISTOR CH 1/8W 680	[0→1]	
R10		ERJ8GEYJ681	M.RESISTOR CH 1/8W 000	[9 / 1]	

Installation of VM LIMIT P.C. Board for Servo P.C. Board (VEP82212B) (for models AJ-D200HE)

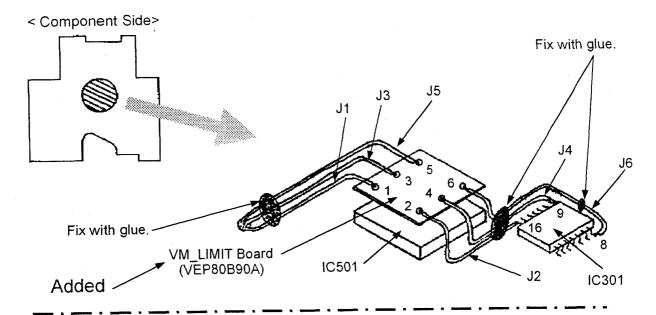
1. Attach the VM_LIMIT P.C. Board on IC501 with adhesive tape.

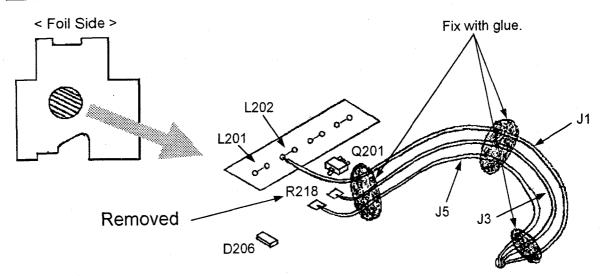
2. Connect the jumper wires (J2, J4 and J6) from the terminals (2), (4) and (6) on the VM_LIMIT P.C. Board to the pins #16, #9 and #8 of IC301 respectively as shown below.

3. Remove R218 (1/8W, 680Ω) from the foil side.

4. Connect the jumper wires (J1, J3 and J5) from the terminals (1), (3) and (5) on the VM_LIMIT P.C. Board to the land of L202 (near L201 side), the land of R218 (near Q201 side) and the other land of R218 respectively as shown below.

VM LIMIT Board	Servo Board
J1 terminal (1)	land of L202 (near L201 side) <foil side=""></foil>
J2 terminal (2)	pin #16 of IC301 < component side>
J3 terminal (3)	land of R218 (near Q201 side) <foil side=""></foil>
J4 terminal (4)	pin #9 of IC301 <component side=""></component>
J5 terminal (5)	land of R218 (far from Q201 side) <foil side=""></foil>
J6 terminal (6)	pin #8 of IC301 <component side=""></component>





Technical Bullet

Supplement to the Service Manual

Broadcast Product

Subject: Standardization of S RAM IC

Please use this supplement together with the Service Manual as follows:

Model No.

Bulletin No.

Order No.

Effective from

56

F8TKA0001

AJ-D200HE

VSD9708M604

Board: VTR Main (VEP83356B)

V19921 # 1030051

Reason for Change

- The following part(s) has (have) been changed for serviceability improvement.
- The following part(s) has (have) been changed for productivity improvement.
- The following part(s) has (have) been changed for standardization.
- The following part(s) has (have) been changed for the safety regulation.

- 1110 10110						
Part Number		New Part No.		Part Name & Descriptions	Pcs	Remarks
Ref. No.	Original Part No.	KM68V1CLTE7L	IC		1 .	
IC6012	KM68V1BL	KM68V1CLTE7L	ic		1	
IC6018	KM68V1BL	MINIOUV TOLILIL				

Technical Bullet

Supplement to the Service Manual

Broadcast Product

Subject : Reduction of Audio Pop Noise

Please use this supplement t	ogether with the Service Manu	al as follows :	
	Bulletin No.	Order No.	Effective from
Model No.	·	VSD9708M604	C8TKA0001
AJ-D200HE	55	VCD0. VCM.	

Board: VTR Main (VEP83356B)

Symptom: Audio pop noise may occur.

: When the power is turned ON and then OFF, the phase of audio frame pulse and audio clock is not fixed. Then latch timing failure may occur in the LSI and audio sample number in 1 frame becomes Cause

irregular. It results in audio pop noise.

Remedy : To reduce the audio pop noise, the following modification is performed.

1). Float the leg of pin #13 of IC33 and then cut it on the foil side as shown in figure 1. 2). Connect a jumper wire between pin # 12 of IC33 and the CTP land (near pin #12 of IC6) on the foil

side as shown in figure 1.

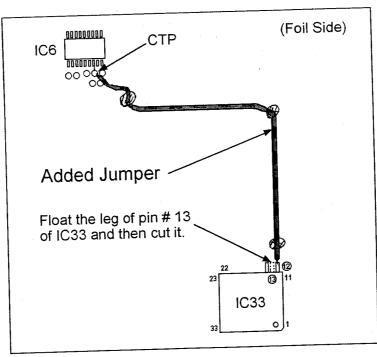


Fig. 1

10909TE5236

Technical Bulleti

Supplement to the Service Manual

Broadcast Product

Subject: Software Version Up Grade

Please use this supplement together with the Service Manual as follows:

Model No.

Bulletin No.

Order No.

Effective from

AJ-D200HE

VSD9708M604

B8TKA0001

Board: VTR Main (VEP83356B)

The following software has been up-dated to add the functioning of the VTR.

Part Number			Part Name & Descriptions	Pcs	Remarks
Ref. No.	Original Part No.	New Part No.	VTR SYSCON FLASH ROM Ver. 1.15	1	
IC6001	VSI2688	VVVSI2688B	VIRSTSCONTEACHTON		

< TEST MENU >

* VTR SYSCON IC6001 : 1.15

The marked (*) version is the device which has been changed from this software revision.

Symptom: When the power is turned OFF, the power supply still works. And then, when the power is turned

ON after for a while, the unit rejects any movement.

Cause

: Software bugs.

Remedy: To prevent it, the VTR System Control software (Flash Memory ROM) is up-graded to version 1.16.

< Other Improvement of Performance >

1. When the ABB is not performed during AWB mode, error display is not appeared. It is displayed.

10655TE508410828TE5192

Technical Bulletin

Supplement to the Service Manual

Broadcast Product

Subject: Standardization of Capacitor

Please use this supplement together with the Service Manual as follows:

Model No.

Bulletin No.

Order No.

Effective from

AJ-D200HE

50

VSD9708M604

K7TKA0001

Board: V DEF (VEP27087A)

Reason for Change

The following part(s) has (have) been changed for serviceability improvement.

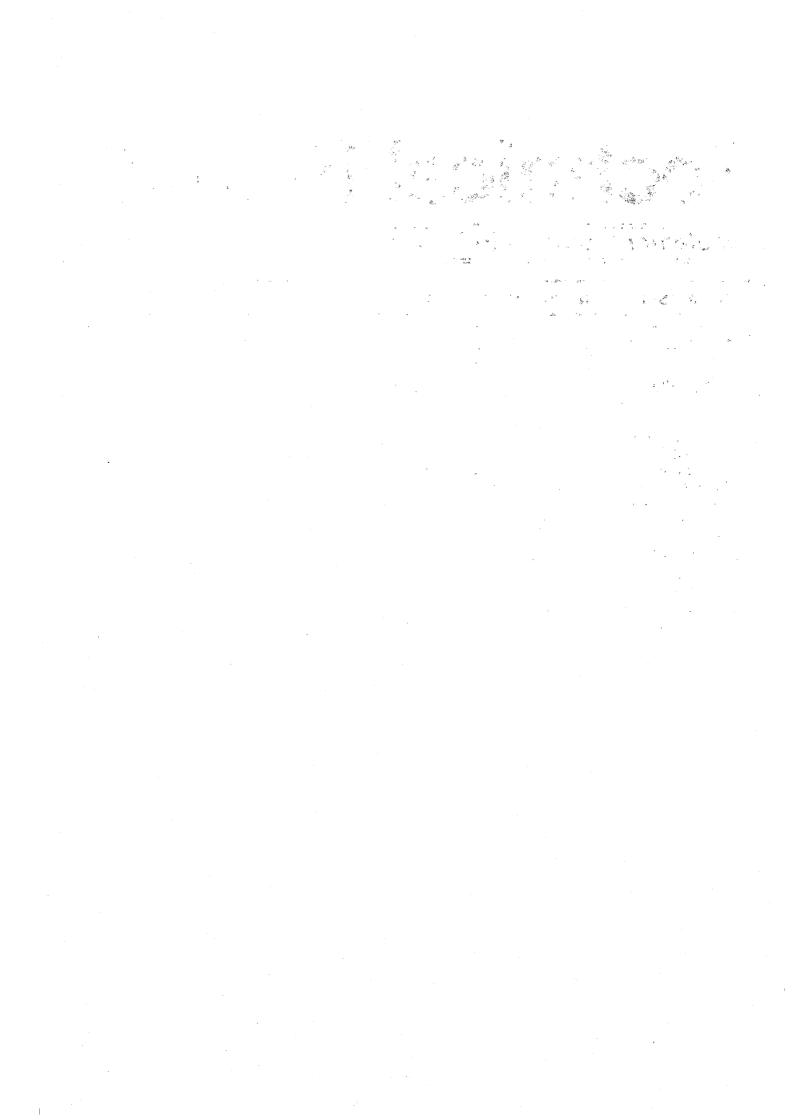
The following part(s) has (have) been changed for productivity improvement.

The following part(s) has (have) been changed for standardization.

The following part(s) has (have) been changed for the safety regulation.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
C7005	ECGC1BA4R7	ECGC1BB4R7	C. CAPACITOR 12V 4.7P	1	

Ref. No.	Schematic Diagram		P.C. Board		
	Page	Area No.	Page	Area No.	
C7005	SCM-45	C-5	CBA-8		



Technical Bulletin

Supplement to the Service Manual

Broadcast Product

Subject: Improvement of 3.6V Adjustment

Please use this supplement together with the Service Manual as follows:

Model No.

Bulletin No.

Order No.

Effective from

AJ-D200HE

40

VSD9708M604

K7TKA0001

Board: Power (VEP81179A)

To improve the 3.6V Adjustment, resistor R1021 is changed from 1/10W, $4.3K\Omega$ to 1/10W, $5.6K\Omega$ on the foil side as follows.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
R1021	VRE0034E432	ERJ6RBD562	M. RESISTOR CH 1/10W 5.6K	1	

Ref. No.	Schematic Diagram		P.C. Board	
	Page	Area No.	Page	Area No.
R1021	SCM-41	C-12 (1/3)	CBA-4	A-3 (F)

Technical Bulleti

Supplement to the Service Manual

Broadcast Product

Subject: Improvement of Audio Monitor Level

Please use this supplement together with the Service Manual as follows:

Model No.

Bulletin No.

Order No.

Effective from

AJ-D200HE

47

VSD9708M604

J7TKA0001

Board: Monitor VR (VEP80A18A)

Symptom: Audio sound may not be heard when the audio volume is rotated less than 5 scale.

Cause

: Increase of audio monitor level is not linear.

Remedy : To improve it, variable resistor VR9200 is changed from VRV0080 to VRV0270 on the component

side.

Part Number			Part Name & Descriptions	Pcs	Remarks		
Ref. No.	Original Part No.	New Part No.	V RESISTOR	1 1			
VR9200	VRV0080	VRV0270	V. RESISTON				

Supplement to the Service Manual

Broadcast Product

Subject : Correction in Parts Number List

Please use this supplement together with the Service Manual as follows:

Model No.

Bulletin No.

Order No.

Effective from

AJ-D200HE

VSD9708M604

Board: VTR Main (VEP83356B) Pre Shuffle (VEP83357A)

VTR Main Board

VTR Main Board				
Part NumberRef. No.Original Part No.C4062VCE0200331	New Part No. VCE0200	Part Name & Descriptions C. CAPACITOR	Pcs 1	Remarks

Pre Shuffle Board

Pre Shuffle	Board				
Part Number Ref. No. C830	Original Part No. VCE0200331	New Part No. VCE0200	Part Name & Descriptions C. CAPACITOR	Pcs 1	Remarks ,

Supplement to the Service Manual

Broadcast Product

Subject: Improvement of ALC Control during Auto Iris Mode

Please use this supplement together with the Service Manual as follows:

Model No.

Bulletin No.

Order No.

Effective from

AJ-D200HE

44

VSD9708M604

17TKA0001

Board: VTR Main (VEP83356B)

Symptom: Proper ALC control may not be performed during Auto Iris mode.

: Dispersion of Analog voltage is wide due to the coarse accuracy of the resistor.

Remedy : To improve the ALC control, resistors R6011 and R6016 are changed to high accuracy resistors as

follows.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
R6011	FRJ3GEYJ153	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R6016	ERJ3GEYJ103	ERJ3RBD103	M. RESISTOR CH 1/16W 10K		

Ref. No.	Schematic	Diagram	P.C. Board	
Not. No.	Page	Area No.	Page	Area No.
R6011	SCM-23	D-2 (16/19)	CBA-2	B-2 (F)
R6016	SCM-23	D-3 (16/19)	CBA-2	B-1 (F)

Supplement to the Service Manual

Broadcast Product

Subject: Reduction of Vertical Line Noise

Please use this supplement together with the Service Manual as follows:

Model No.

Bulletin No.

Order No.

Effective from

AJ-D200HE

VSD9708M604

17TKA0001

Board: Process (VEP23422B)

Symptom: Vertical line noise may appear.

Cause

: Due to the noise from IC.

Remedy: To reduce the vertical line noise, the following modification is performed.

1). Coil L318 (VLP0154) is removed from the foil side.

2). Resistor $(1/16W,27\Omega)$ is added after the removing portion of L318 on the foil side.

3). After this modification, specification of DC Voltage Adjustment is changed from 3.15 \pm 0.01V to 3.10 + 0.01V/-0.00V on the Service Manual Page 4-2 as shown below.

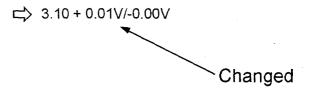
Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
	VEP23422A	VEP23422B	PROCESS P.C.BOARD	1	
L318	VLP0154	ERJ3GEYJ270	M. RESISTOR CH 1/16W 27	1 1	

Ref. No.	Schematic Diagram		P.C. Board		
{	Page	Area No.	Page	Area No.	
L318	SCM-7	I-21	CBA-7	D-7 (F)	

1. Power

1-1 DC Voltage Adjustment

, i. bo voltago / tajaotintont							
ITEM	TEST	ADJUST	SPEC.				
3.15V ADJ.	*TP9	VR5	$3.15 \pm 0.01 \text{V}$				
3.6V ADJ.	TP4	VR3	$3.6 \pm 0.05 V$				
5.0V ADJ.	TP5	VR2	5.0 ± 0.05V				
5.6V ADJ.	TP3	VR1	5.6 ± 0.05V				
-5.6V ADJ.	TP8	VR6	-5.6 ± 0.51V				
9.0V ADJ.	TP6	VR4	9.0 ± 0.05V				
48V Confirm	TP9		44.0 ± 4.0V				



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Supplement to the Service Manual

Broadcast Product

Subject: Improvement of PCM Audio Mute under High Temperature

Please use this supplement together with the Service Manual as follows: Effective from Order No. Bulletin No. Model No. 17TKA0001 VSD9708M604 41 AJ-D200HE

Board: Video Main (VEP83356B)

Symptom: PCM Audio noise may be muted under high temperature. (40°C)

: Audio VCO PLL may not be locked under high temperature. It results in PCM Audio mute. Cause

Remedy : To prevent the PCM Audio mute, the following modification is performed.

1). Resistor R70 (VTR0145) is removed from the foil side as shown in figure 1. 2). Resistor R71 is changed from $1.5 \text{K}\Omega$ to $3 \text{K}\Omega$ on the foil side as shown in figures 1 and 2.

3). One side legs of resistors R70 and R79 are cut to 5mm and then bent them as shown in figure 2.

4). The other side legs of them are soldered as shown in figure 2.

5). Attach the insulation sheet on the foil side as shown in figure 2.

6). No soldered side of resistor R70 is installed to R183 as shown in figure 2.

7). No soldered side of resistor R79 is installed to R71 as shown in figure 2.

* Note * When the resistors R70 and R79 are bent after soldered to chip resistors (R71 and R183), the electrode may be peeled off. Be sure legs of resistors R70 and R79 must be bent before soldering.

8). After this modification, 2-3. AUDIO VCO Adjustment is required. Please refer to the Service

Manual Page 4-2.

Part Number			I	Pcs	Remarks
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	1 1	
R71	ERJ3GEYJ152		M. RESISTOR CH 1/16W 3K	0→1	
R79		VRT0145	THERMISTER	10 / 11	
1779					

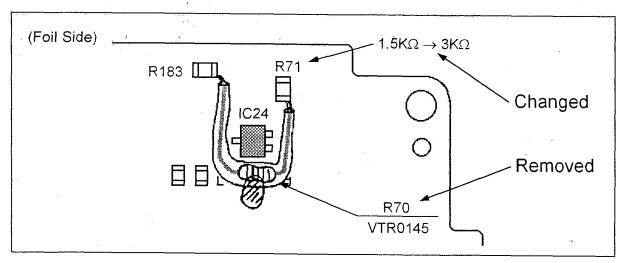


Fig. 1

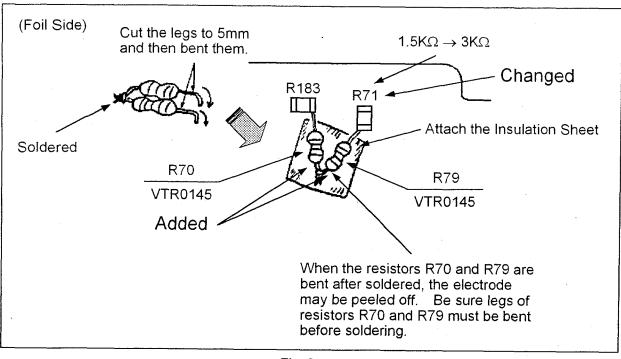


Fig. 2

Supplement to the Service Manual

Broadcast Product

Subject: Change of ROM Type

Please use this supplement together with the Service Manual as follows:

Model No.

Bulletin No.

Order No.

Effective from

AJ-D200HE

40

VSD9708M604

17TKA0001

Board : Servo (VEP82212B)

To improve manufacturing productivity, IC501 is changed from one time memory type PROM to masking type PROM.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
IC501	VSI2407B	MN6755486H8M	IC	1	

Ref. No.	Schematic Diagram		P.C. Board	
	Page	Area No.	Page	Area No.
IC501	SCM-31	D~H-7~10 (5/10)	CBA-3	C-3 (C)

Supplement to the Service Manual

Broadcast Product

Subject: Correction in Parts Number List

Please use this supplement together with the Service Manual as follows:

Bulletin No.

Order No.

Effective from

Model No. AJ-D200HE

37

VSD9708M604

V19321#1030051

Packing Parts Assembly

		.,			
Part Number		N Dark No.	Part Name & Descriptions	Pcs	Remarks
Ref. No.	Original Part No.	New Part No. VQT7284	OPERATING INSTRUCTIONS	1_	
2	VQT7073	VQT7284	OPERATING INSTRUCTIONS		

Supplement to the Service Manual

Broadcast Product

Subject : Correction in Parts Number List

Please use this supplement together with the Service Manual as follows:

Model No.

Bulletin No.

Order No.

Effective from

AJ-D200HE

VSD9708M604

Frame Assembly (1) Frame Assembly (2)

Frame Assembly (1)

Frame Ass	sembly (1)				
Part Number		L Ded No	Part Name & Descriptions	Pcs	Remarks
Ref. No.	Original Part No.	New Part No. VMP5372	C.B.A. SUPPORT ANGLE	1	
25	VSC4644	VMP5372 VSC4644	SHIELD CASE (1)	1 1	
1 26	VMP5372	V60 10 11			

Frame Assembly (2)

Frame Ass	sembly (2)				
Part Number Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs 0→3	Remarks
124		XYE3+EF6R	SCREV	<u></u>	

Supplement to the Service Manual

Broadcast Product

Subject: Improvement of Reel Motor Unit

Please use this supplement together with the Service Manual as follows:

Model No.

Bulletin No.

Order No.

Effective from

AJ-D200HE

35

VSD9708M604

F8TKA0001

Mechanism Chassis Assembly (1)

Symptom: Reel Table may take off.

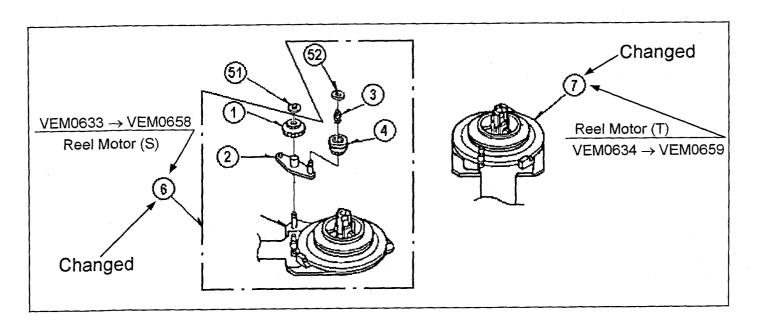
Cause : Brake Arm may get under the Reel Table and the stator coil covering may be broken by it, then rare

short may occur. It results in Reel Table come off.

Remedy: To prevent it, the Rotor Stopper is added to the Reel Motor (S) and (T). And the Reel Motor (S) and

(T) are changed as follows.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
6	VEM0633	VEM0658	REEL MOTOR (S)	1	
7	VEM0634	VEM0659	REEL MOTOR (T)	11	



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Supplement to the Service Manual

Broadcast Product

Subject: Improvement of Main Cam Arm Unit

Please use this supplement together with the Service Manual as follows:

Model No.

Bulletin No.

Order No.

Effective from

AJ-D200HE

33

VSD9708M604

D8TKA0001

Mechanical Chassis Assembly (2)

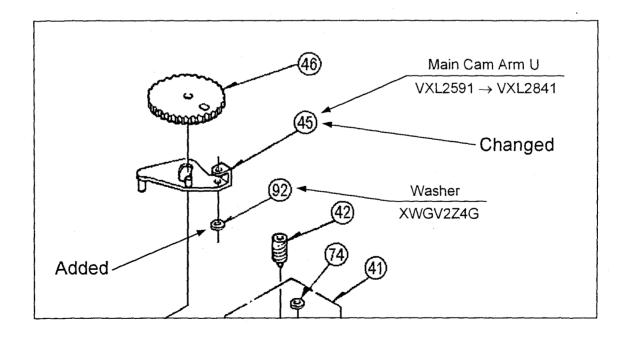
Symptom: U-shaped portion of the Main Cam Arm Unit may be broken when the loading is repeated.

: Due to the lack of material strength.

Remedy: To prevent it, the Main Cam Arm Unit is changed from VXL2591 to VXL2841 and the washer

(XWGV2Z4G) is added under the Main Cam Arm Unit as shown below.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
45	VXL2591	VXL2841	MAIN CAM ARM U	1 1	
92		XWGV2Z4G	WASHER	[0→1[



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Supplement to the Service Manual

Broadcast Product

Subject: Improvement of Pinch Roller

Please use this supplement together with the Service Manual as follows:

Model No.

Bulletin No.

Order No.

Effective from

AJ-D200HE

27

VSD9708M604

C8TKA0001

Mechanical Chassis Assembly (2)

Symptom: Pinch Roller may be cracked.

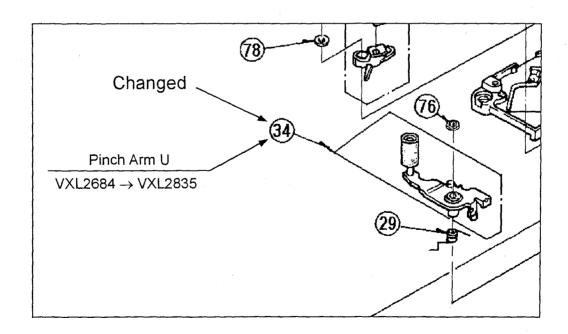
Cause : Due

: Due to the lack of plasticizer from the Pinch Roller rubber and atmosphere. (Ozone) It results in

Pinch Roller crack.

Remedy: To prevent it, the Pinch Arm Unit is changed from VXL2684 to VXL2835 as shown below.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
34	VXL2684	VXL2835	PINCH ARM U	1	



M1547TM3771

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Supplement to the Service Manual

Broadcast Product

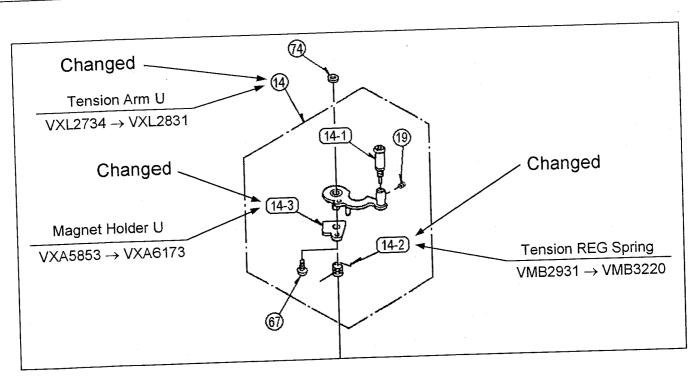
Subject : Improvement of Tension Leg Spring

		al as follows:	
Please use this supplement	together with the Service Manu	Order No.	Effective from
Model No.	Bulletin No.	VSD9708M604	A8TKA0001
AJ-D200HE	21	A2D3100M004	

Mechanical Chassis Assembly (2)

To reduce the coil portion wear of the Tension Regulator Spring, the Tension Regulator Spring is changed from VMB2931 to VMB3220 as shown below. According to this change, the Tension Arm Unit and Magnet Holder Unit are changed as shown below.

Part Number		5 (1)	Part Name & Descriptions	Pcs	Remarks
Ref. No. 14 14-2 14-3	Original Part No. VXL2734 VMB2931 VXA5853	VMB3220	TENSION ARM U TENSION REG SPRING MAGNET HOLDER U	1 1 1 1	



M1507TM3713

Supplement to the Service Manual

Broadcast Product

Subject : Change of Screw for Tension Sensor Unit

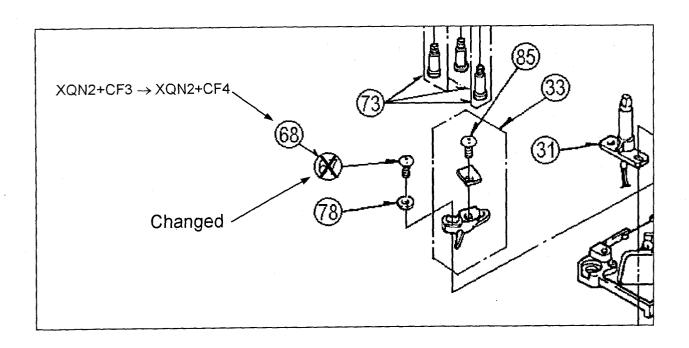
Please use this supplement together with the Service Manual as follows:						
Model No.	Bulletin No.	Order No.	Effective from			
A LD200HE	20	VSD9708M604	K7TKA0001			

Mechanical Chassis Assembly (2)

Reason for Change

- The following part(s) has (have) been changed for serviceability improvement.
- ☐ The following part(s) has (have) been changed for productivity improvement.
- The following part(s) has (have) been changed for standardization.
- The following part(s) has (have) been changed for the safety regulation.

Part Number						
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks	
67	XQN2+CF3		SCREW	1→0		
68		XQN2+CF4	SCREW	0-→1		



TM3700

Supplement to the Service Manual

Broadcast Product

Subject: Reduction of Click Sound from Cleaner Solenoid Unit

Please use this supplement to	ogether with the Service Mar	nual as follows:	Effective from
Model No.	Bulletin No.	Order No. VSD9708M604	K7TKA0001
AJ-D200HE	19	V 02D3109M004	

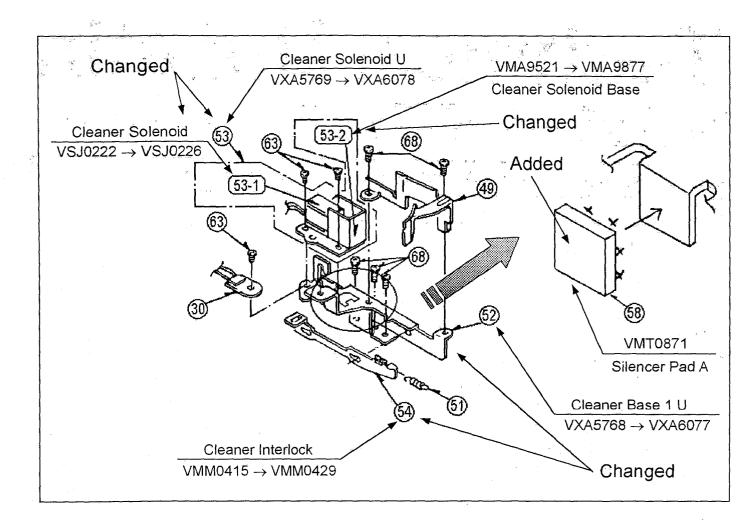
Mechanical Chassis Assembly (2)

Symptom: Click sound may be heard from the Cleaner Solenoid Unit when it functions.

Remedy: To reduce the click sound from the Cleaner Solenoid Unit, the Cleaner Solenoid is changed to the silencer type as shown below.

- 1). Change the Cleaner Base 1 Unit from VXA5768 to VXA6077.
- 2). Change the Cleaner Solenoid Unit from VXA5769 to VXA6078.
- 3). Change the Cleaner Solenoid from VSJ0222 to VSJ0226.
- 4). Change the Cleaner Solenoid Base from VMA9521 to VMA9877.
- 5). Change the Cleaner Interlock from VMM0415 to VMM0429.
- 6). Add a Silencer Pad A (VMT0871) to the Cleaner Base 1 Unit by adhesive as shown in figure 1.

art Number			Part Name & Descriptions	Pcs	Remarks
Ref. No. 52 53 53-1 53-2 54	Original Part No. VXA5768 VXA5769 VSJ0222 VMA9521 VMM0415	New Part No. VXA6077 VXA6078 VSJ0226 VMA9877 VMM0429 VMT0871	CLEANER BASE 1 U CLEANER SOLENOID U CLEANER SOLENOID CLEANER SOLENOID BASE CLEANER INTERLOCK SILENCER PAD A	1 1 1 1 1 1 0→1	



Supplement to the Service Manual

Broadcast Product

Subject: Standardization of P.C. Board Fixing Screws

Please use this supplement together with the Service Manual as follows:

Model No.

Bulletin No.

Order No.

Effective from

AJ-D200HE

18

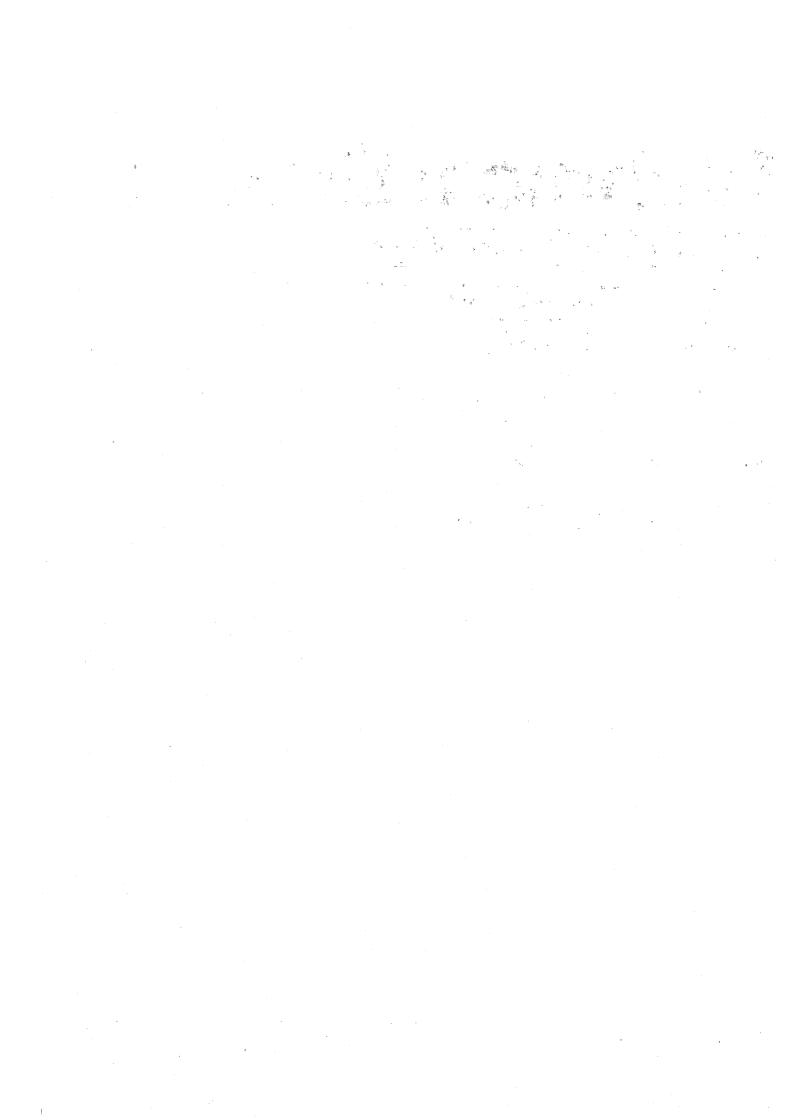
VSD9708M604

L7TKA0001

Frame Assembly (2)

To standardize the parts, the P.C. Board fixing screws to the Side Case (R) Unit are changed from XYN3+K6RS to XYN3+K8FR as shown below.

X 1 M2+KOKO to X 1110			
Part Number Ref. No. Original Part Number 120 XYN3+K6R	Part Name & Descriptions SCREWS	Pcs 16	Remarks



Supplement to the Service Manual

Broadcast Product

Subject : Standardization of Lock Spring

Please use this supplement together with the Service Manual as follows:

Model No.

Bulletin No.

Order No.

Effective from

AJ-D200HE

16

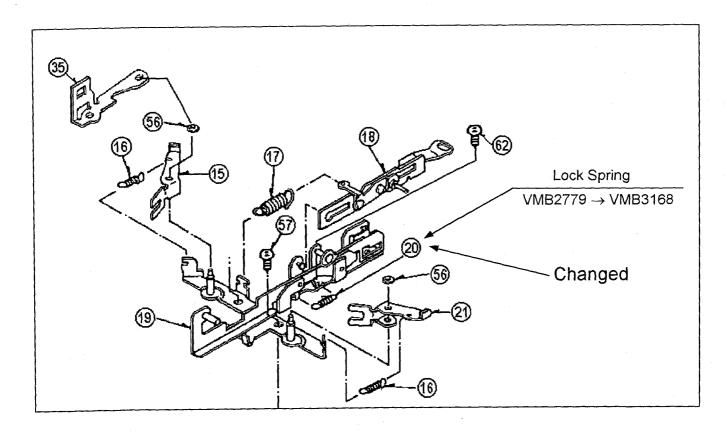
VSD9708M604

17TKA0001

Mechanical Chassis Assembly (1)

To standardize the parts, the Lock Spring for L Cassette Brake Base Unit is changed from VMB2779 to VMB3168 as shown below.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
20	VMB2779	VMB3168	LOCK SPRING	1	



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Supplement to the Service Manual

Broadcast Product

Subject: Prevention of P.C. Board Touching

Please use this supplement together with the Service Manual as follows:

Model No.

Bulletin No.

Order No.

Effective from

AJ-D200HE

15

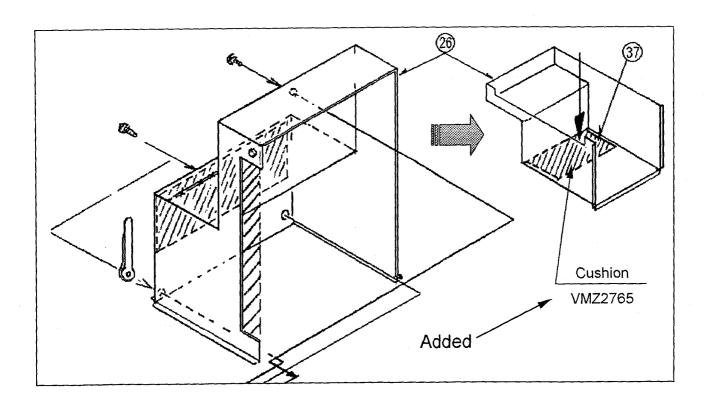
VSD9708M604

17TKA0001

Frame Assembly (1)

To prevent the Sensor P.C. Board from touching with the Shield Case (1), a cushion for Sensor P.C. Board is added as shown below.

Part Number							
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks		
37		VMZ2765	CUSHION	0→1			



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Order No. VSD9710SE612

Technical Bullet

Supplement to the Service Manual

Broadcast Product

Subject : Change for CE Safety Regulation

Please use this supplement together with the Service Manual as follows: Effective from Order No. Bulletin No. Model No. 17TKA0001 VSD9708M604 AJ-D200HE

> Board: Rear Jack (VEP84297C) DC INPUT (VEP00X87C) AV OUT (VEP80A75A) Frame Assembly (1) Frame Assembly (2)

To meet the CE Safety Regulation, the following modification is performed. 1). Rear Jack, DC INPUT and AV OUT P.C. Boards are changed as follows.

Part Number Ref. No.	Original Part No. VEP84297B VEP80A44A	VEPONX87C	Part Name & Descriptions REAR JACK P.C. Board DC INPUT P.C. Board	Pcs 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Remarks
	VEP80A43A	VEP80A75A	AV OUT P.C. Board		

< Frame Assembly (1) >

1). The fixing screw (XYN3+C6) for the Sub Plate is deleted as shown in figure 1.

2). The fixing screws for the C.B.A. Angle are changed from XYN3+C6 to XYN3+K8FR as shown in figure 2.

_, .					
Part Number			Part Name & Descriptions	Pcs	Remarks
Ref. No.	Original Part No.	New Part No. XYN3+C6	SCREW	6→3	
103	XYN3+C6 	XYN3+K8FR	SCREW	[0→2]	

- 1). Ferrite Core (VLP0186), Clamper (VJF0980) and fixing screw (XYN3+F6) are added to the Rear Case Unit < Frame Assembly (2) >
 - 2). A fixing screw for the Blank Plate is changed from XSB3+6FZ to XSB3+10FZ as shown in figure 4.
 - 3). A Nut (XNG3B) and washer (XWC3B) are added to the Jack Plate as shown in figure 4.

art Number			Part Name & Descriptions	Pcs	Remarks
Ref. No.	Original Part No.	New Part No.		0→1	
	0.13	VLP0186	FERRITE CORE	0→1	
20		VJF0980	CLAMPER	*	
21		1 70, 0000	SCREW	[1→0]	
104	XSB3+6FZ	V0D0.40E7	SCREW	0→1	
119		XSB3+10FZ		[0→1]	
125		XYN3+F6	SCREW		

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Supplement to the Service Manual

Broadcast Product

Subject: Improvement of Reel Motor Unit

L				
Dia	essues this supplement t	together with the Service Manu	al as follows :	
Pie		Bulletin No.	Order No.	Effective from
	Model No.		VSD9708M604	17TKA0001
	AJ-D200HE	10	VSD9706M604	11.10.000

Mechanism Chassis Assembly (1)

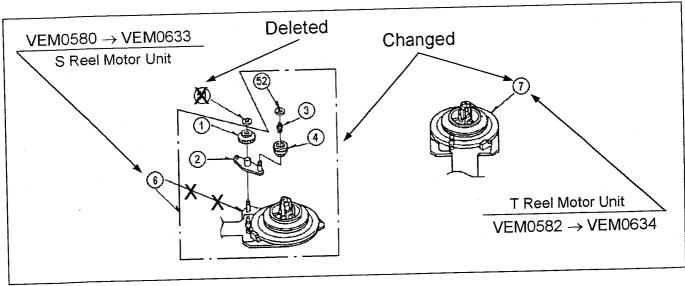
Symptom: Reel Motor (Rotor portion) may take off from the Stator portion during transportation.

Remedy : To prevent it, the Rotor portion of Reel Motor and Idler Gear Unit are united with the Stator portion of

Reel Motor as shown below.

According to this change, the 1-2. Cassette Height Position Pin Adjustment is not required.

Part Number			Part Name & Descriptions	Pcs	Remarks
Ref. No.	Original Part No.	New Part No.		1→0	
1101, 110.	VDG1189		IDLER GEAR A	1 1	
]			I IDLER GEAR	[1→0]	
2 1	VXL2614		IDLER SPRING	[1→0]	
: 1	∨MB3011			l1→0l	
í	VXP1700		IDLER GEAR BU	1 1	
	VEM0580	VEM0633	S REEL MOTOR U		
5	• =	VEM0634	T REEL MOTOR U	1	
7	VEM0582	V LIVIOUU-	CUT WASHER	[1→0]	
51	VMX1061			11→0	
52	VMX2391		CUT WASHER	1, 79	



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Supplement to the Service Manual

4

Broadcast Product

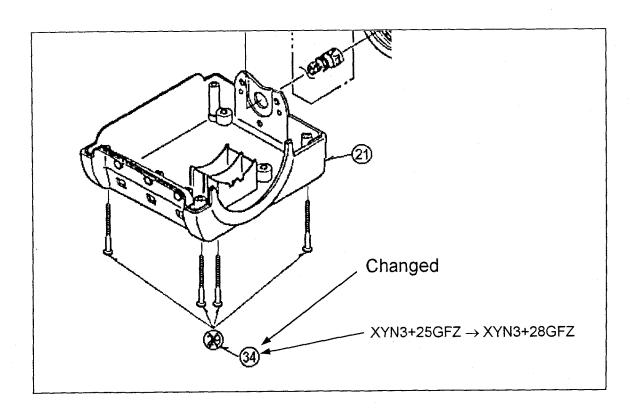
Subject : Change of Fixing Screws

Please use this supplement	together with the Service Manu	ual as follows :	
Model No.	Bulletin No.	Order No.	Effective from
A L DOODHE	Q	VSD9708M604A	17TKA0001

EVF Assembly

To improve the fixing screws for the Top and Bottom cases, the screws are changed from XTN3+25GFZ to XTN3+28GFZ.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
29	XTN3+25GFZ		SCREW	4→0	
34		XTN3+28GFZ	SCREW	[0→4]	



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Supplement to the Service Manual

Broadcast Product

Subject : Change of Fixing Screw for Ferrite Core

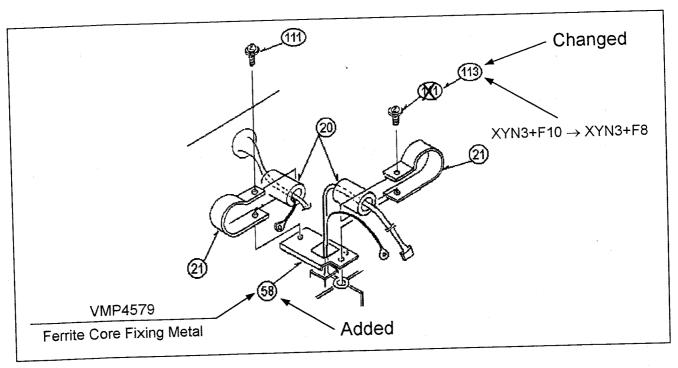
Please use this supplement	together with the Service Manu	al as follows:	
	Bulletin No.	Order No.	Effective from
Model No.	Bulletin No.	1/0D0700M604A	17TKA0001
AJ-D200HE	8	VSD9708M604A	Ti Tro toco.

Frame Assembly (2)

Reason for Change

- ☐ The following part(s) has(have) been changed for serviceability improvement.
- The following part(s) has(have) been changed for productivity improvement.
- ☐ The following part(s) has(have) been changed for standardization.
- The following part(s) has (have) been changed for the safety regulation.

Part Number			Part Name & Descriptions	Pcs	Remarks
Ref. No.	Original Part No.	New Part No.	FERRITE CORE FIXING METAL	0→1	
58		VMP4579	SCREW	1→0	
111	XYN3+F10	XYN3+F8	SCREW	0→1	
113		<u> </u>	1 001.12.1		



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Supplement to the Service Manual

Broadcast Product

Subject: Improvement of Cassette Compartment Unit

Please use this supplement together with the Service Manual as follows:

Model No.

Bulletin No.

Order No.

Effective from

AJ-D200HE

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VSD9708M604A

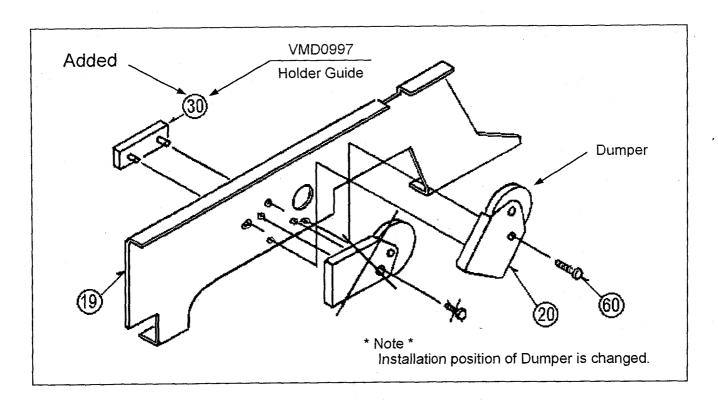
I7TKA0001

Cassette Compartment Assembly

To improve the Cassette Compartment, the Holder Guide (VMD0997) is added to the Side Plate (R) as shown below

According to this change, the installation position of the Dumper is changed as shown below.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
30		VMD0997	HOLDER GUIDE	0→1	



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Supplement to the Service Manual

Broadcast Product

Subject : Improvement of L Cassette Brake Base Unit

Please use this supplement together with the Service Manual as follows:

Model No. Bulletin No. Or

Order No.

Effective from

AJ-D200HE

5

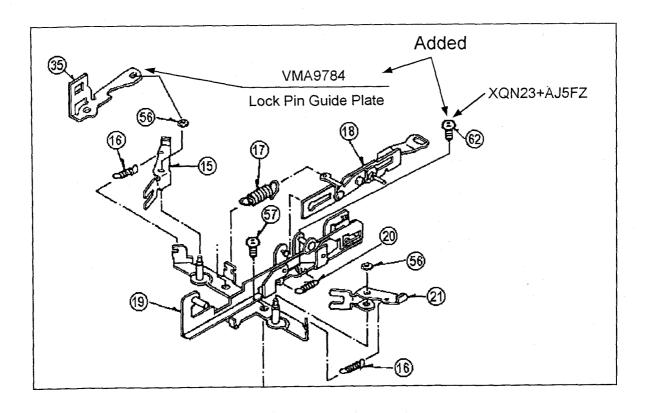
VSD9708M604A

17TKA0001

Mechanism Chassis Assembly (1)

To increase the reinforcement of L Cassette Brake Base Unit against the falling down, the Lock Pin Guide Plate (VMA9784) is added to the L Cassette Brake Base (1) Unit as shown below.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
35		VMA9784	LOCK PIN GUIDE PLATE	[0→1]	
62		XQN23+AJ5FZ	SCREW	[0→1]	



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Supplement to the Service Manual

Broadcast Product

Subject: Service Manual Correction

Please use this supplement together with the Service Manual as follows:

Model No.

Bulletin No.

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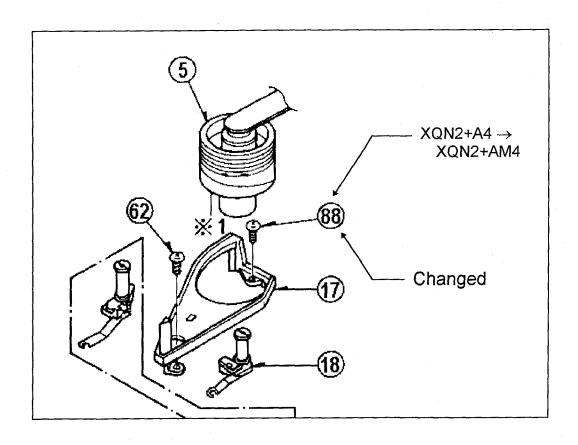
AJ-D200HE

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VSD9708M604

Mechanical Chassis Assembly (2)

Part Number		·			
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
88	XQN2+A4	XQN2+AM4	SCREW	1	



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Supplement to the Service Manual

Broadcast Product

Subject: Change of Screws

Please use this supplement t	ogether with the Service Manua	al as follows:	
Model No.	Bulletin No.	Order No.	Effective from
AJ-D200HE	3	VSD9708M604	17TKA0001

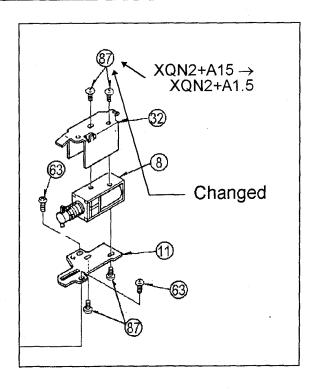
Mechanical Chassis Assembly (2)

Reason for Change

- The following part(s) has(have) been changed for serviceability improvement.
- The following part(s) has(have) been changed for productivity improvement.
- ☐ The following part(s) has(have) been changed for standardization.
- The following part(s) has (have) been changed for the safety regulation.

Mechanical Chassis Assembly (2)

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
87	XQN2+A15	XQN2+A1.5	SCREW	4	



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Supplement to the Service Manual

Broadcast Product

Subject: Service Manual Correction

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Model No.

Bulletin No.

Order No.

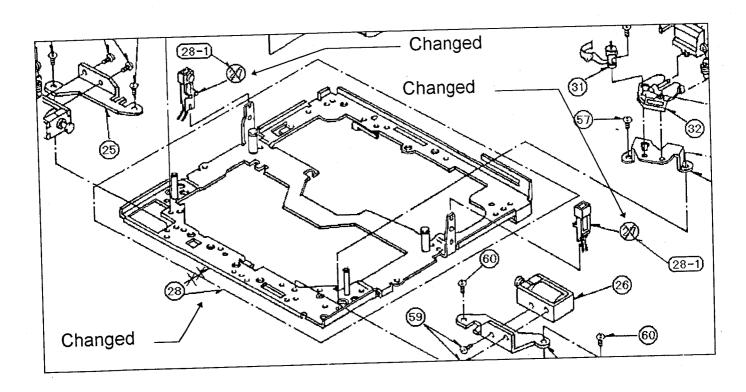
Effective from

AJ-D200HE

2

VSD9708M604

Mechanical Chassis Assembly (1)



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Supplement to the Service Manual

Broadcast Product

Subject: Service Manual Correction

Please use this supplement together with the Service Manual as follows:

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Bulletin No.

Order No.

Effective from

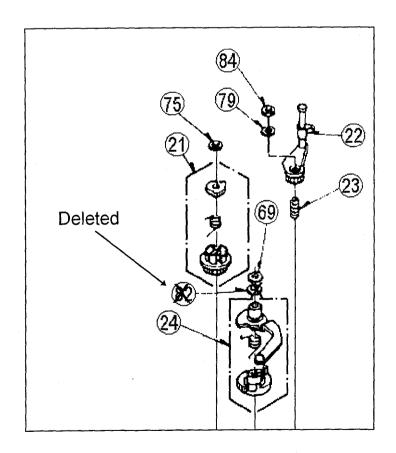
AJ-D200HE

1

VSD9708M604

Mechanical Chassis Assembly (2)

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
82	XWGV15Z32G	<u></u>	WASHER	1→0	



Supplement to the Service Manual

Broadcast Product

Subject: Improvement of Escutcheon Unit of View Finder

		Monu	al as follows:	
Plea	se use this supplement	together with the Service Manu	Order No.	Effective from
	Model No.	Bulletin No.		17TKA0001
	AJ-D200HE	6	VSD9708M604A	7711010001

Board : CRT Mask (VEP27090C) **EVF** Assembly

Symptom : Smoke may occur from the Eye Piece Unit when the View Finder is left to be turning the Eye Piece

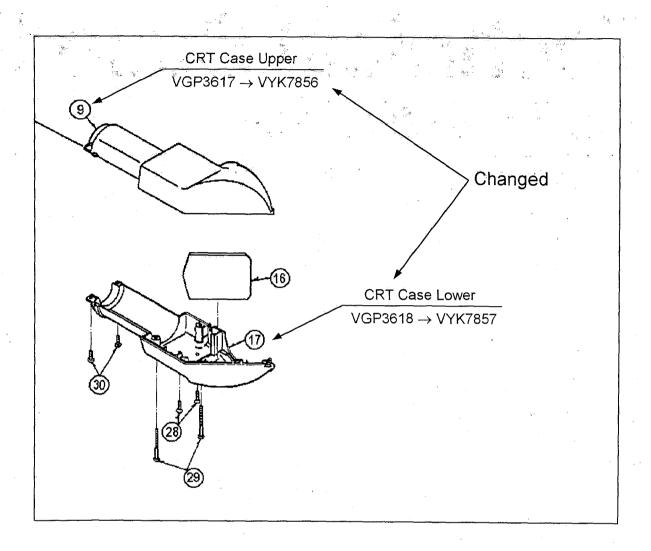
toward the sun.

: CRT Name Plate on the Escutcheon is burned by the sun. Cause

Remedy : To prevent it, the CRT Name Plate is added to the CRT Mask P.C. Board and CRT Case Protection

Sheets are added to the upper and lower CRT Case as follows.

art Number		New Part No.	Part Name & Descriptions	Pcs	Remarks
Ref. No.	Original Part No.		CRT MASK P.C.BOARD	1 1	
	VEP27090A	VEP27090C	EVF ASSEMBLY		
9	VGP3617 VGP3618	VYK7856 VYK7857	CRT CASE UPPER CRT CASE LOWER	1 1	



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